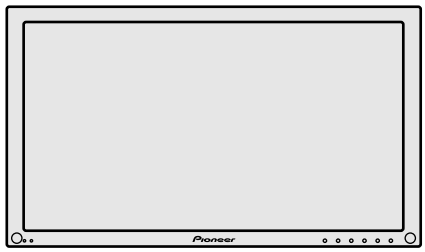
Pioneer sound.vision.soul

Service Manual



ORDER NO.
ARP3107

PLASMA DISPLAY

PDP-503PE
PDP-503PU

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	Remarks
	PDP-503PE	PDP-503PU		
WYVI6	○	–	AC220 - 240V	
KUC	–	○	AC120V	

● This product is component of system.

Component		System		Service Manual	Remaks
Plasma Display System		PDP-503HDE	PDP-5030HD	————	
	Media Receiver	PDP-R03E	PDP-R03U	PDP-R03E : ARP3110 PDP-R03U : ARP3113	
	Plasma Display	PDP-503PE	PDP-503PU	ARP3107 ARP3108	This service manual



For details, refer to "Important symbols for good services".

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T – IZE JAN. 2002 Printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS



NOTICE :Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed :

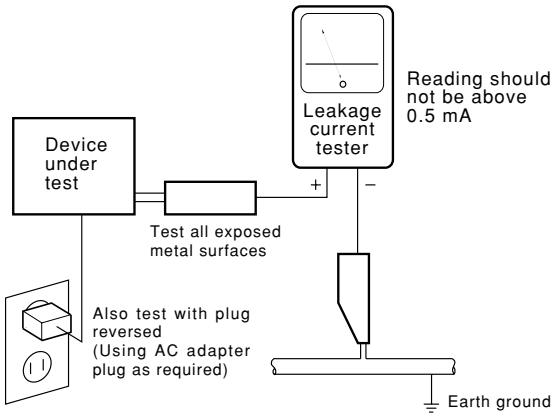
1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's.
   Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and service technician.
6. Perform the following precautions against unwanted radiation and rise in internal temperature.
   - Always return the internal wiring to the original styling.
   - Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
7. Perform the following precautions for the PDP panel.
   - When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
   - Make sure that the panel vent does not break. (Check that the cover is attached.)
   - Handle the FPC connected to the panel carefully.
     Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
8. Pay attention to the following.
   - When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
   - Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

Leakage Current Cold Check

With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of 0.3MΩ and a maximum resistor reading of 5MΩ. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).
Turn the AC power switch on.
Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.
Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

CHARGED SECTION AND HIGH VOLTAGE GENERATING POINT

■ Charged Section

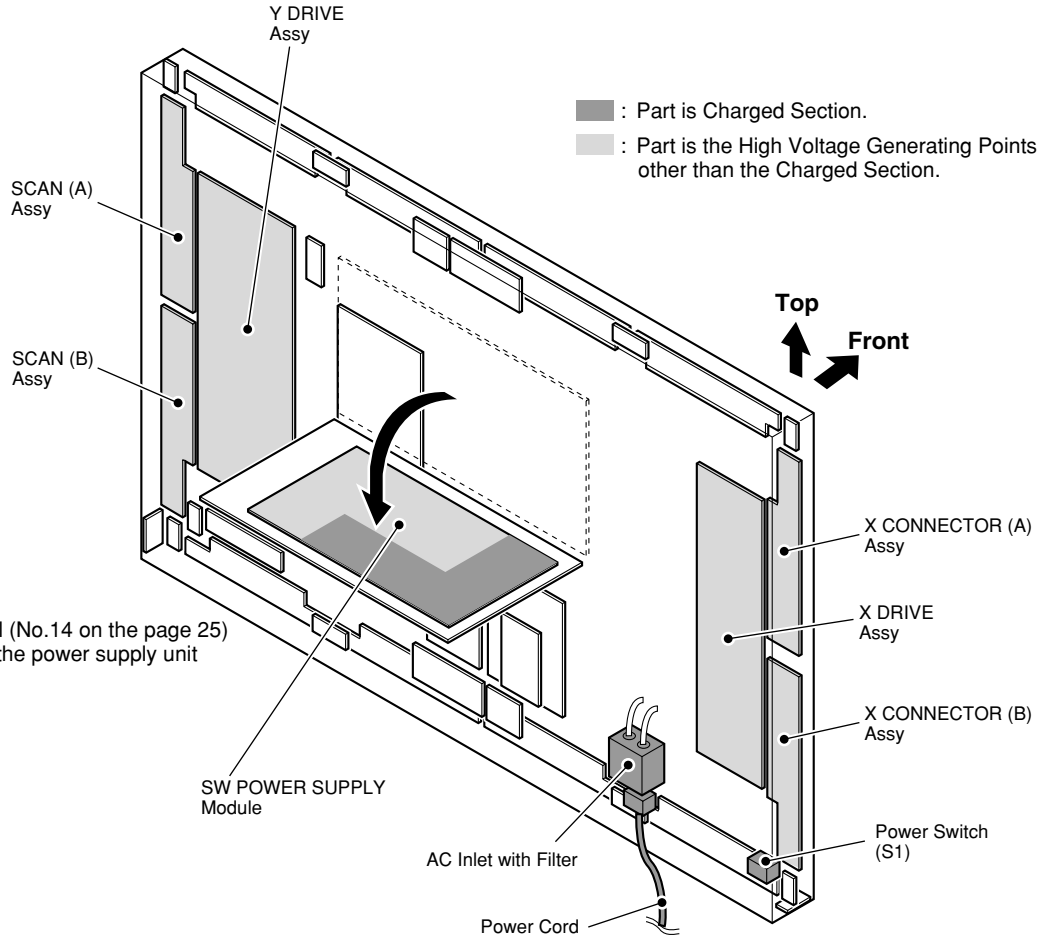
The places where the commercial AC power is used without passing through the power supply transformer.
If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

1. AC Power Cord
2. AC Inlet with Filter
3. Power Switch (S1)
4. Fuse (In the SW POWER SUPPLY Module)
5. STB Transformer and Converter Transformer (In the SW POWER SUPPLY Module)
6. Other primary side of the SW POWER SUPPLY Module

■ High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. SW POWER SUPPLY Module ..... (225V)
2. X DRIVE Assy ..... (–300V to 225V)
3. Y DRIVE Assy ..... (355V)
4. SCAN (A) Assy ..... (355V)
5. SCAN (B) Assy ..... (355V)
6. X CONNECTOR (A) Assy ..... (–300V to 225V)
7. X CONNECTOR (B) Assy ..... (–300V to 225V)



* Remove the IF Earth Metal (No.14 on the page 25) beforehand when inclines the power supply unit as the right figure.

Fig.1 Charged Section and High Voltage Generating Point (Rear View)

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

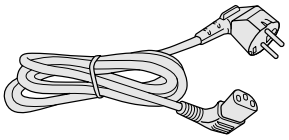
Item	Model: PDP-503PE	Model: PDP-503PU
Number of Pixels	1280 × 768 pixels	
Audio Amplifier	12 W + 12 W (10% distortion)	
Power Requirement	AC 220–240 V, 50/60 Hz, 356 W (0.6 W Standby)	AC 120 V, 60 Hz, 370 W (0.6 W Standby)
Dimensions	1218 (W) × 714 (H) × 98 (D) mm [$47_{31/32}$ (W) × $28_{1/8}$ (H) × $3_{7/8}$ (D) inch]	
Weight	38.9 kg (85.8 lbs)	
Accessories	Power Cord, Cleaning Cloth, Three speed clamps, Three bead bands, Warranty card	

• Design and specifications are subject to change without notice.

• Accessories

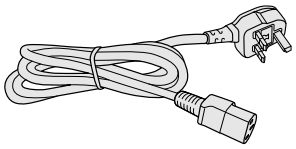
Power cord

(ADG1173) ⚠



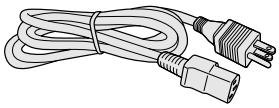
(For Europe, except U.K. and Eire)

(ADG1193) ⚠



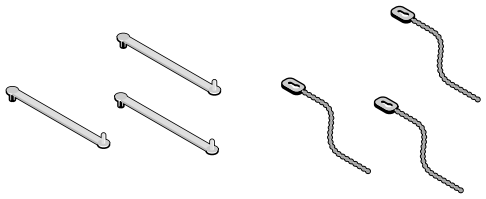
(For U.K., and Eire)

(ADG1178) ⚠

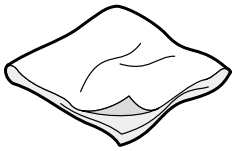


(For North America)

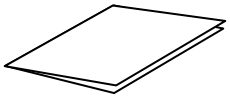
Binder Assy (AEC1908)



Three speed clamps Three bead bands



Cleaning cloth (AED1197)

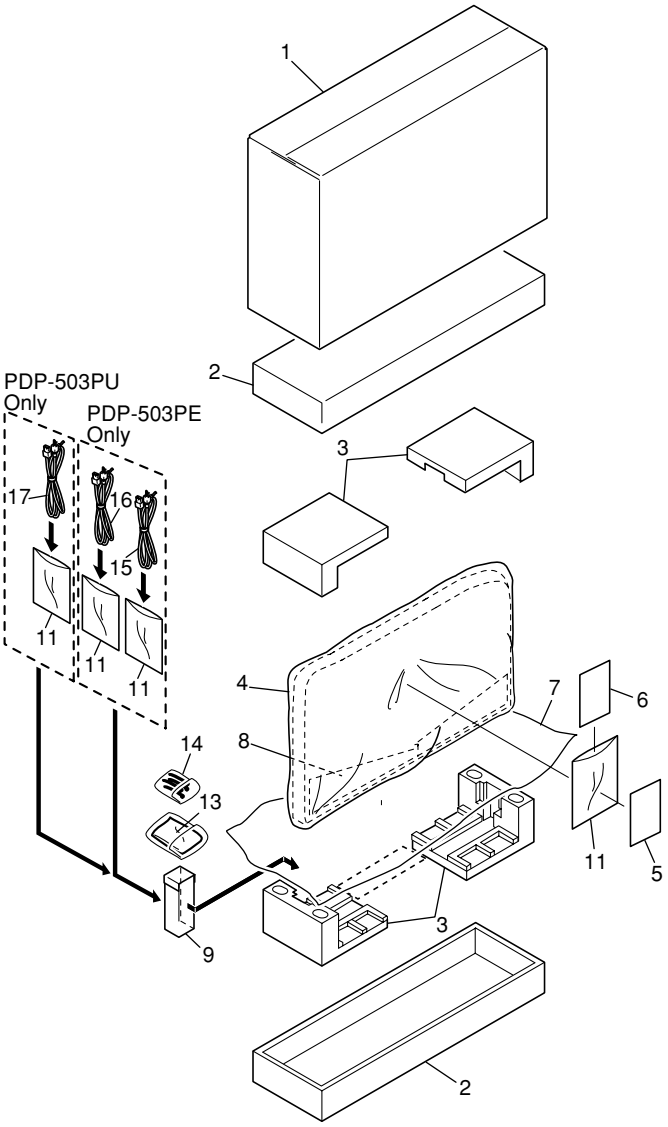


Warranty card

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 PACKING



(1) PACKING PARTS LIST

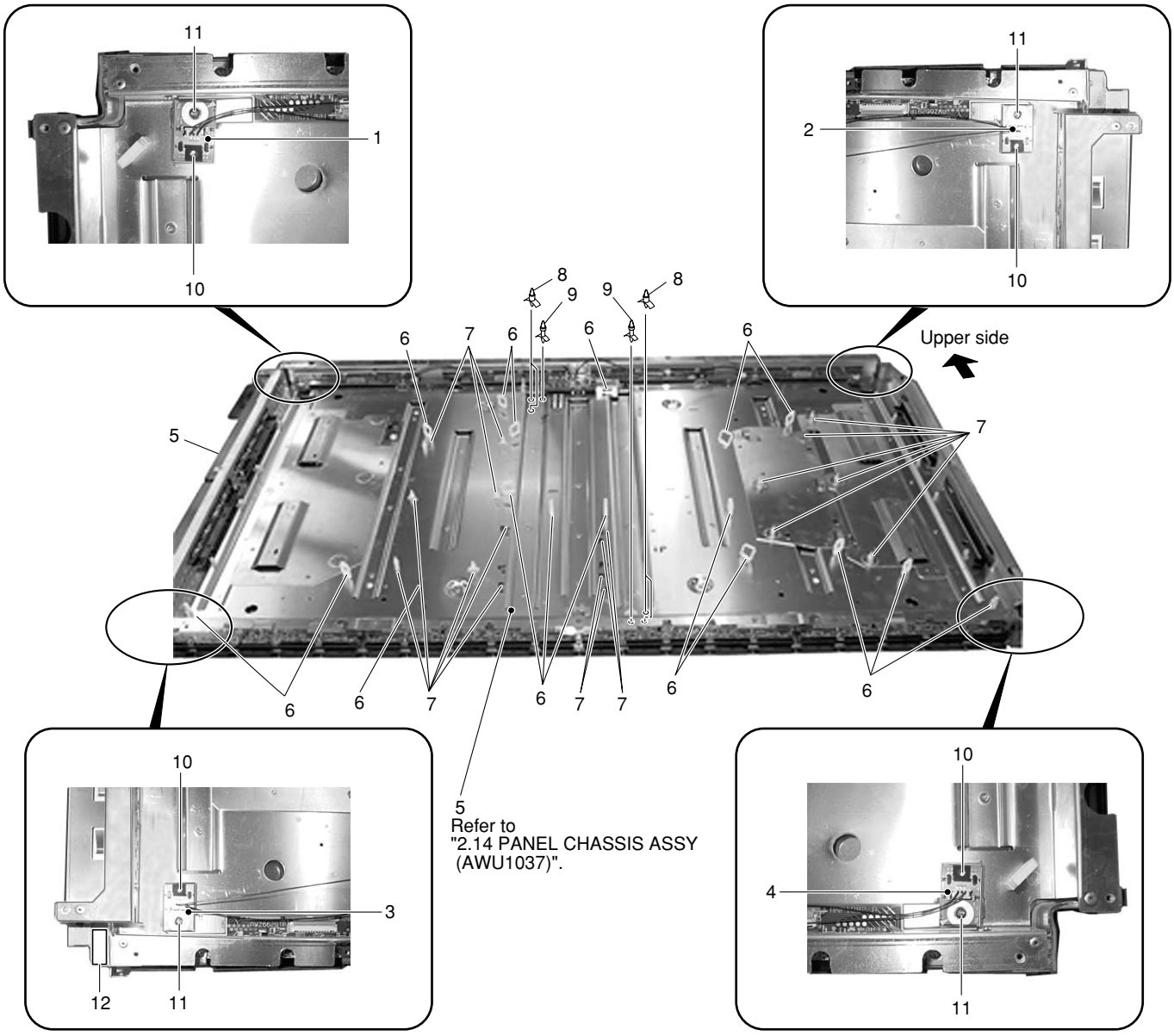
Mark	No.	Description	Part No.
	1	Upper Carton	See Contrast table (2)
	2	Under Carton	AHD3037
	3	Pad	AHA2280
	4	Mirror Mat	AHG1284
	5	Caution Sheet	ARM1201
NSP	6	Warranty Card	See Contrast table (2)
	7	Polyethylene Sheet	AHG1302
	8	Front Sheet	AHB1241
	9	Cord Case	AHC1037
	10	• • • • •	
	11	Vinyl Bag	AHG1310
	12	• • • • •	
	13	Wiping Cloth	AED1197
	14	Binder Assy (Speed Clamp × 3, Bead Band × 3)	AEC1908
⚠	15	Power Cord	See Contrast table (2)
⚠	16	Power Cord	See Contrast table (2)
⚠	17	Power Cord	See Contrast table (2)

(2) CONTRAST TABLE

PDP-503PE/WYVI6 and PDP-503PU/KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			PDP-503PE	PDP-503PU	
			WYVI6	KUC	
	1	Upper Carton	AHD3104	AHD3103	
NSP	6	Warranty Card	ARY1114	ARY1112	
⚠	15	Power Cord	ADG1173	Not used	
⚠	16	Power Cord	ADG1193	Not used	
⚠	17	Power Cord	Not used	ADG1178	

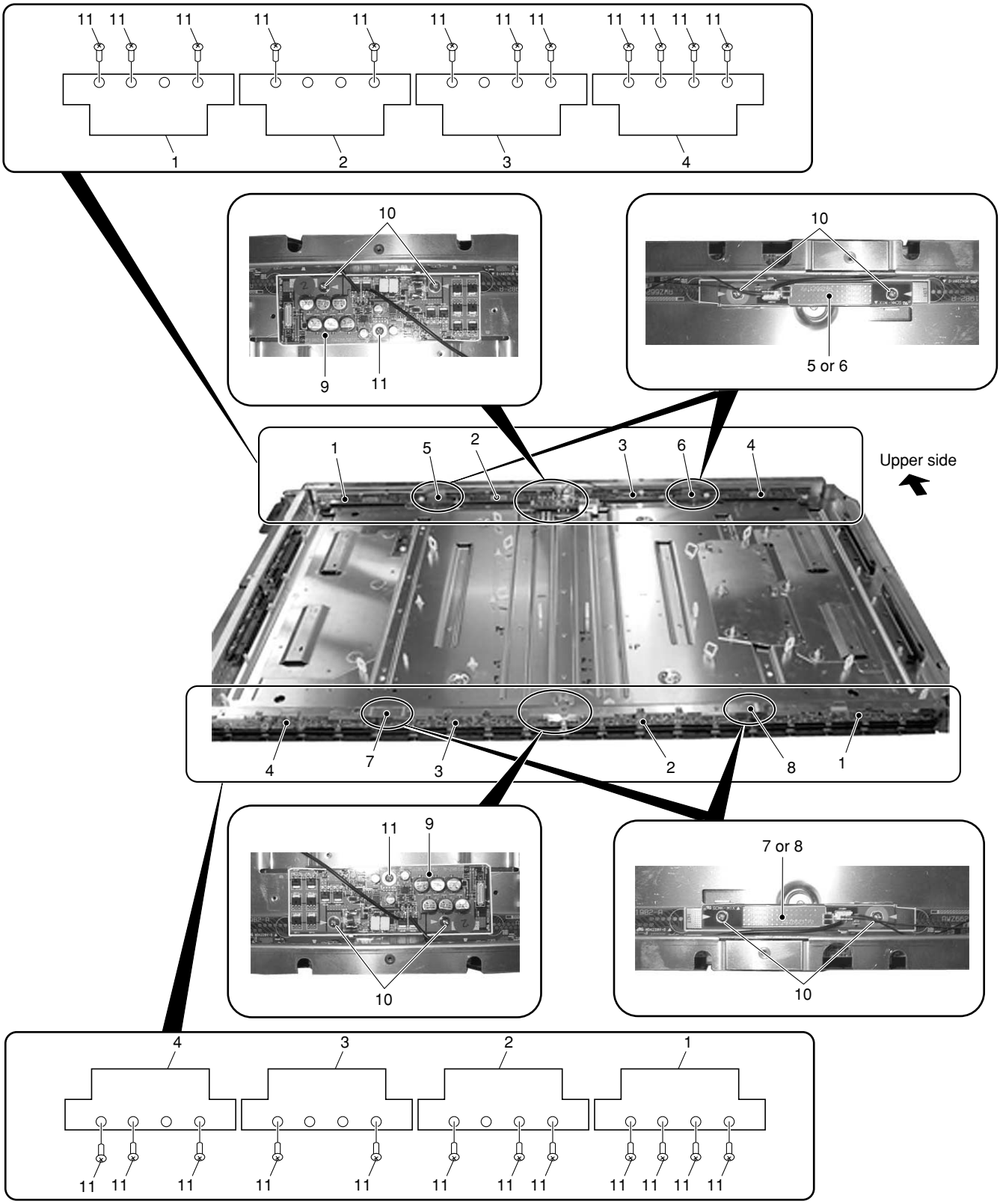
2.2 UNDER LAYER SECTION (1)



● UNDER LAYER SECTION (1) PARTS LIST

Mark	No.	Description	Part No.
NSP	1	CLAMP A Assy	AWZ6650
NSP	2	CLAMP B Assy	AWZ6651
NSP	3	CLAMP C Assy	AWZ6652
NSP	4	CLAMP D Assy	AWZ6653
	5	Panel Chassis (50) Assy [Refer to "2.14 PANEL CHASSIS (50) ASSY".]	AWU1037
	6	Wire Saddle	AEC1904
	7	Circuit Board Spacer	AEC1872
	8	Circuit Board Spacer	AEC1873
NSP	9	PCB Support	AEC1253
	10	Locking Card Spacer	AEC1736
	11	Screw	ABA1301
	12	V Cushion	AED1205

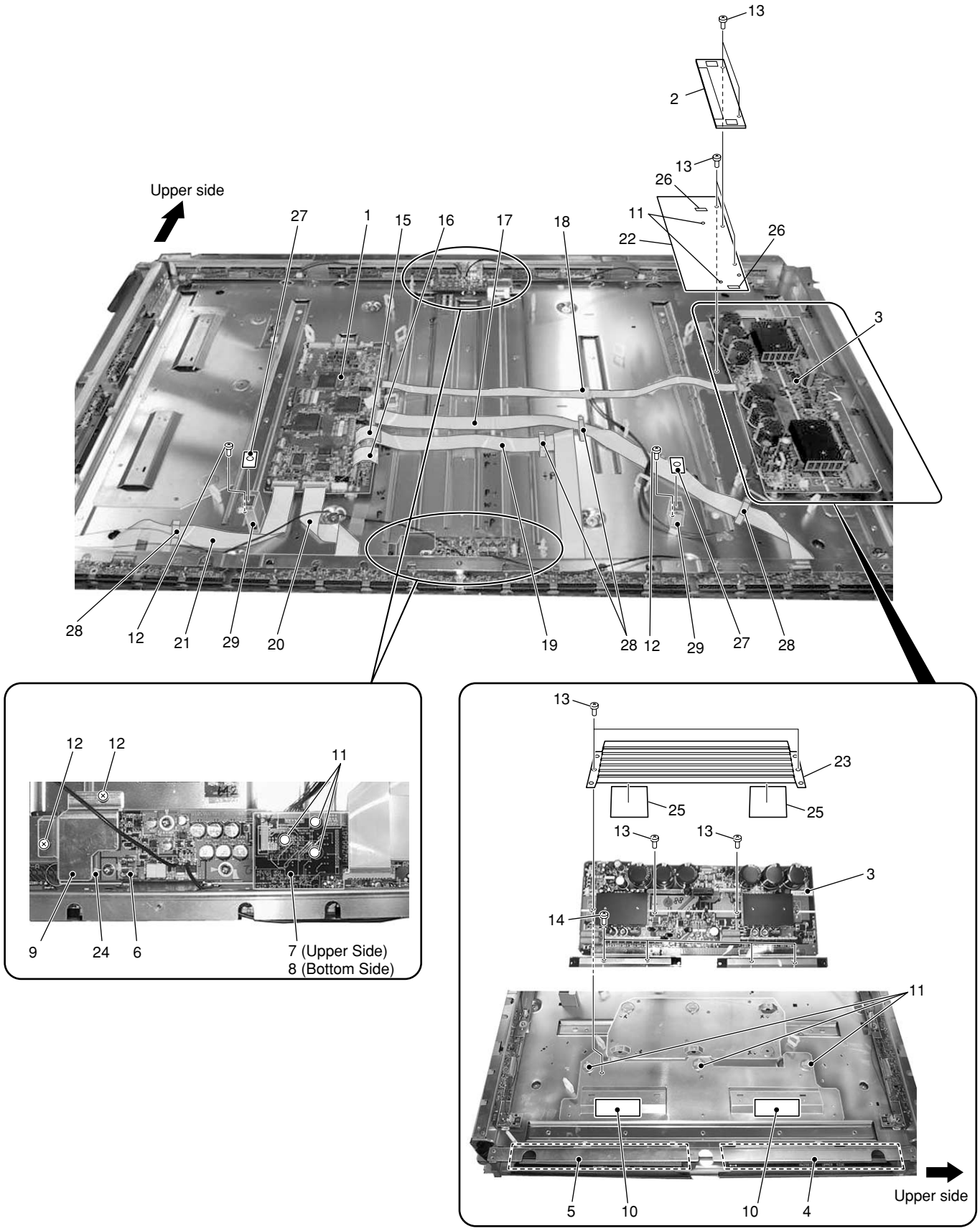
2.3 UNDER LAYER SECTION (2)



● UNDER LAYER SECTION (2) PARTS LIST

Mark	No.	Description	Part No.
NSP	1	ADR CONNECT A Assy	AWZ6626
NSP	2	ADR CONNECT B Assy	AWZ6627
NSP	3	ADR CONNECT C Assy	AWZ6628
NSP	4	ADR CONNECT D Assy	AWZ6629
NSP	5	BRIDGE A Assy	AWZ6620
NSP	6	BRIDGE B Assy	AWZ6621
NSP	7	BRIDGE C Assy	AWZ6622
NSP	8	BRIDGE D Assy	AWZ6623
	9	ADR RESONANCE Assy	AWZ6691
	10	Screw	ABA1301
	11	Screw	VBB30P100FNI

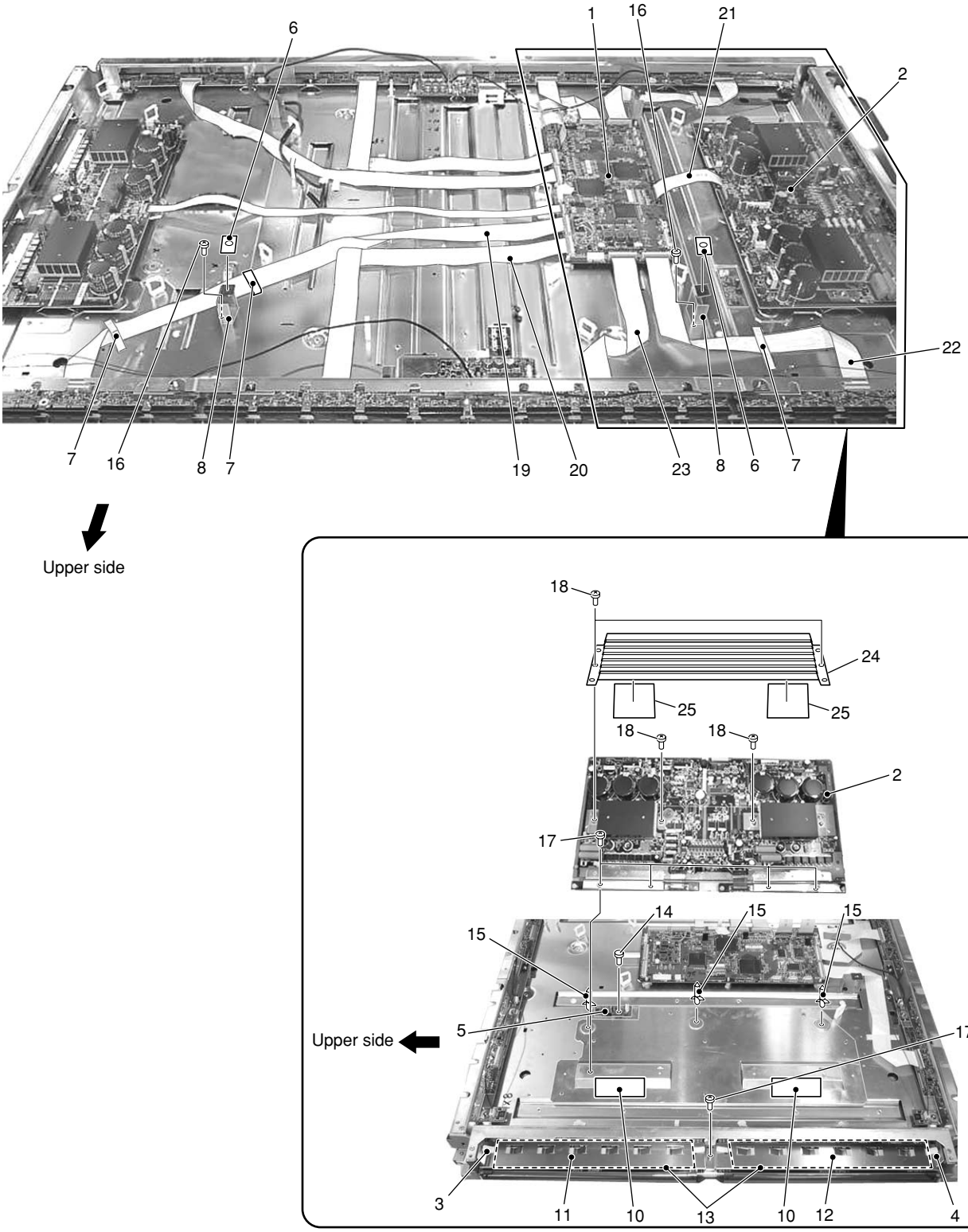
2.4 UNDER LAYER SECTION (3)



● UNDER LAYER SECTION (3) PARTS LIST

Mark	No.	Description	Part No.
	1	DIGITAL VIDEO Assy	AWV1903
	2	V MID CLAMP Assy	AWV1934
	3	X DRIVE Assy	AWV1901
NSP	4	X CONNECTOR (A) Assy	AWZ6618
NSP	5	X CONNECTOR (B) Assy	AWZ6619
	6	ADR RESONANCE Assy	AWZ6691
	7	SUB ADDRESS A Assy	AWZ6689
	8	SUB ADDRESS B Assy	AWZ6690
NSP	9	Scan Heat Sink	ANH1594
	10	Coil Silicone Sheet	AEH1048
	11	Circuit Board Spacer	AEC1873
	12	Screw	ABZ30P060FMC
	13	Screw	VBB30P100FNI
	14	Screw	PMB30P060FNI
	15	J201 Flexible Flat Cable	ADD1194
	16	J202 Flexible Flat Cable	ADD1194
	17	J209 Flexible Flat Cable	ADD1191
	18	J204 Flexible Flat Cable	ADD1196
	19	J210 Flexible Flat Cable	ADD1190
	20	J211 Flexible Flat Cable	ADD1186
	21	J212 Flexible Flat Cable	ADD1188
NSP	22	Holder	ANG2509
NSP	23	Drive Heatsink Assy	ANH1598
	24	Silicone Sheet	AEH1039
	25	Drive Silicone Sheet	AEH1041
	26	Niplocker	BEC1136
	27	Insulation Sheet	AMR3263
	28	Flat Clamp	AEC1879
NSP	29	Metal Fittings	ANG2464

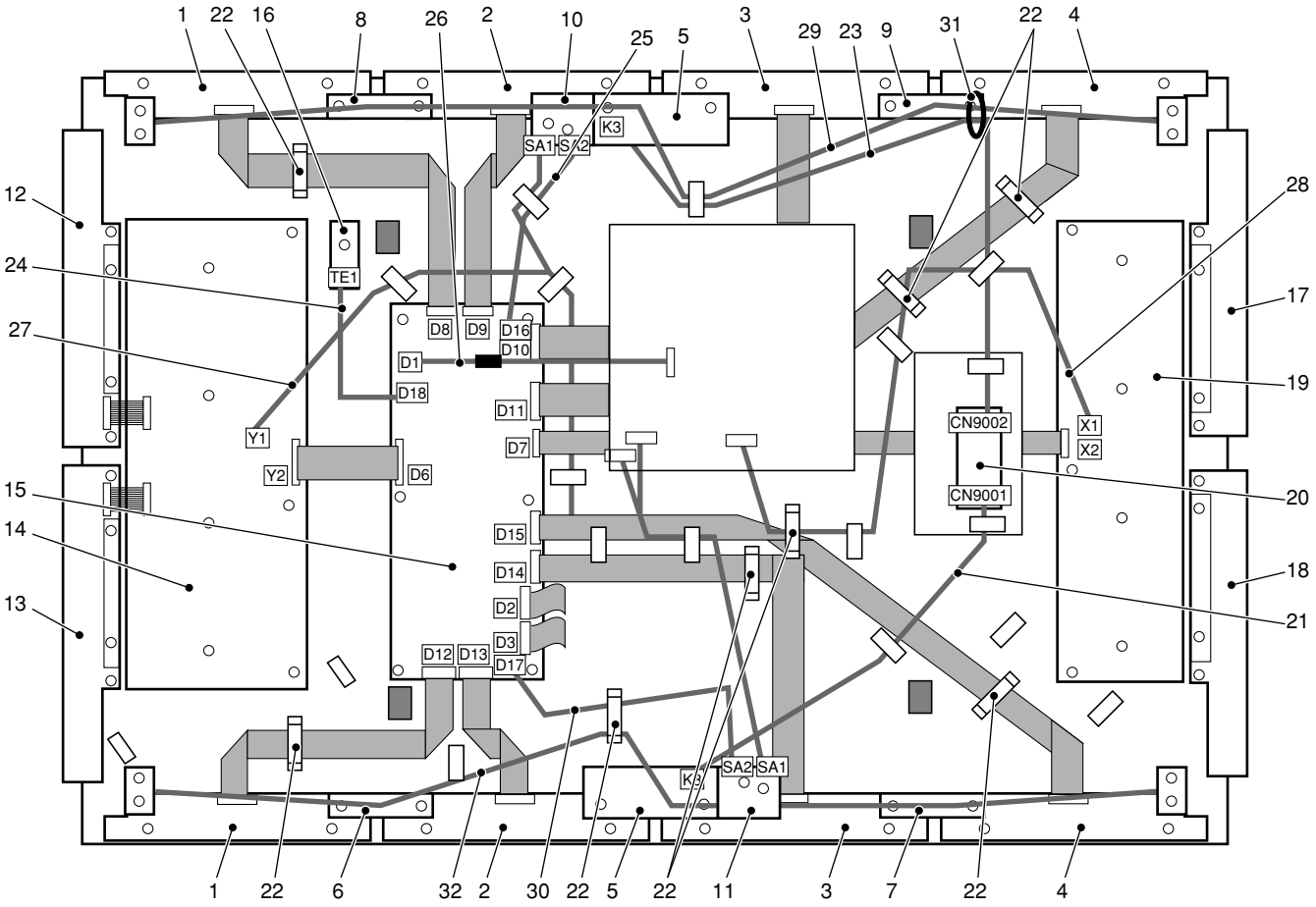
2.5 UNDER LAYER SECTION (4)



● UNDER LAYER SECTION (4) PARTS LIST

Mark	No.	Description	Part No.
	1	DIGITAL VIDEO Assy	AWV1903
	2	Y DRIVE Assy	AWZ6645
NSP	3	SCAN (A) Assy	AWZ6617
NSP	4	SCAN (B) Assy	AWZ6616
	5	THERMAL SENSOR Assy	AWZ6660
	6	Insulation Sheet	AMR3263
	7	Flat Clamp	AEC1879
	8	Metal Fittings	ANG2464
	9	• • • • •	
	10	Coil Silicone Sheet	AEH1048
	11	Scan IC Spring (L)	ABK1026
	12	Scan IC Spring (R)	ABK1027
	13	Scan Insulation Sheet	AMR3271
	14	Rivet	BEC1066
	15	Circuit Board Spacer	AEC1872
	16	Screw	ABZ30P060FMC
	17	Screw	PMB30P060FNI
	18	Screw	VBB30P100FNI
	19	J208 Flexible Flat Cable	ADD1191
	20	J207 Flexible Flat Cable	ADD1190
	21	J203 Flexible Flat Cable	ADD1184
	22	J205 Flexible Flat Cable	ADD1189
	23	J206 Flexible Flat Cable	ADD1187
NSP	24	Drive Heatsink Assy	ANH1598
	25	Drive Silicone Sheet	AEH1041

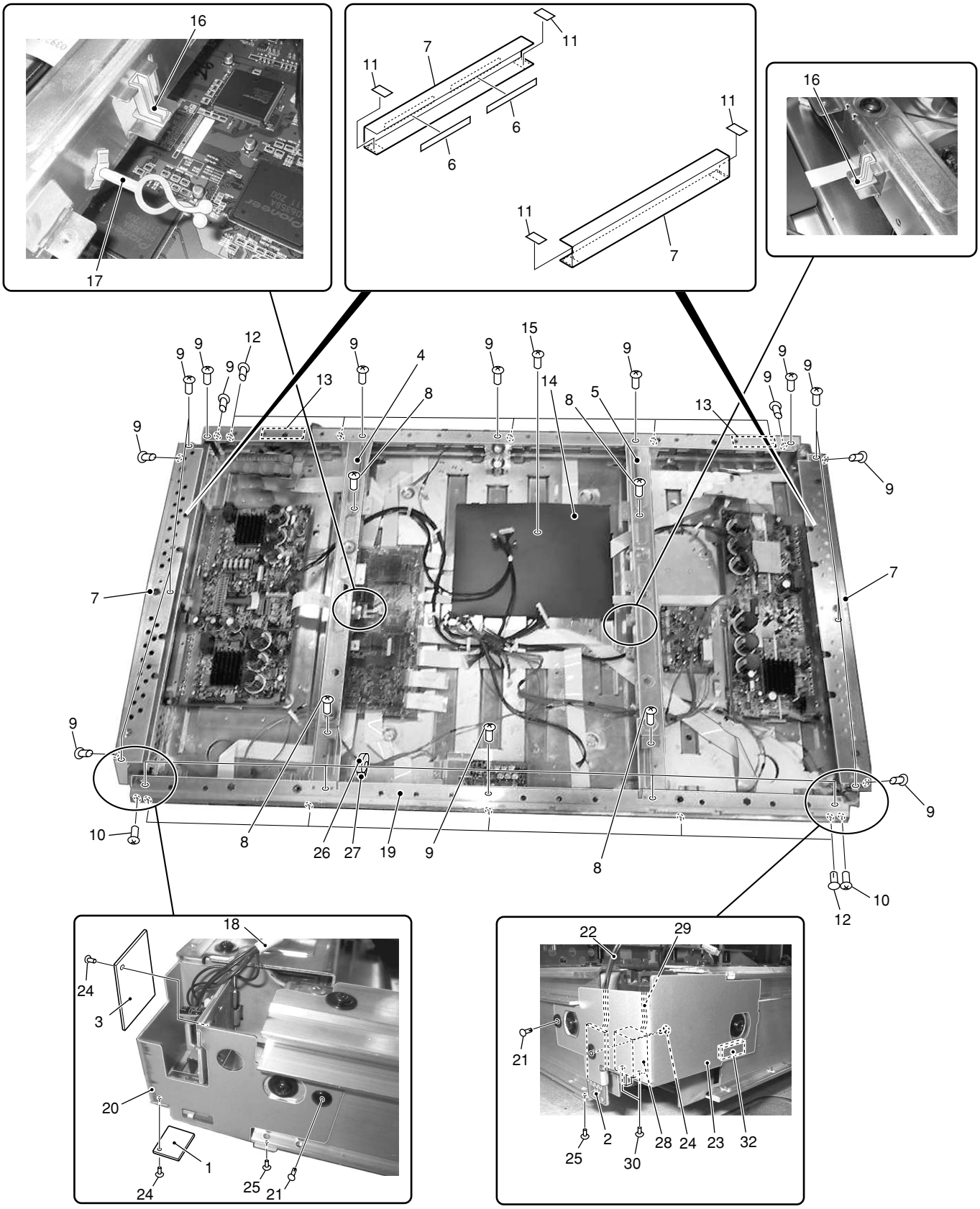
2.6 UNDER LAYER SECTION (5)



● UNDER LAYER SECTION (5) PARTS LIST

Mark	No.	Description	Part No.
NSP	1	ADR CONNECT A Assy	AWZ6626
NSP	2	ADR CONNECT B Assy	AWZ6627
NSP	3	ADR CONNECT C Assy	AWZ6628
NSP	4	ADR CONNECT D Assy	AWZ6629
	5	ADR RESONANCE Assy	AWZ6691
NSP	6	BRIDGE A Assy	AWZ6620
NSP	7	BRIDGE B Assy	AWZ6621
NSP	8	BRIDGE C Assy	AWZ6622
NSP	9	BRIDGE D Assy	AWZ6623
	10	SUB ADDRESS A Assy	AWZ6689
	11	SUB ADDRESS B Assy	AWZ6690
NSP	12	SCAN (A) Assy	AWZ6617
NSP	13	SCAN (B) Assy	AWZ6616
	14	Y DRIVE Assy	AWZ6645
	15	DIGITAL VIDEO Assy	AWV1903
	16	THERMAL SENSOR Assy	AWZ6660
NSP	17	X CONNECTOR (A) Assy	AWZ6618
NSP	18	X CONNECTOR (B) Assy	AWZ6619
	19	X DRIVE Assy	AWV1901
	20	V MID CLAMP Assy	AWV1934
	21	J121 5P Housing Wire	ADX2759
	22	Flat Clamp	AEC1879
	23	J120 5P Housing Wire	ADX2761
	24	J110 3P Housing Wire	ADX2704
	25	J108 8P Housing Wire	ADX2701
	26	J101 Wire F	ADX2726
	27	J102 Wire E	ADX2694
	28	J103 13P Housing Wire	ADX2700
	29	J116 4P Housing SP Wire	ADX2756
	30	J109 Wire G	ADX2720
	31	Binder	AEC-093
	32	J117 4P Housing SP Wire	ADX2756

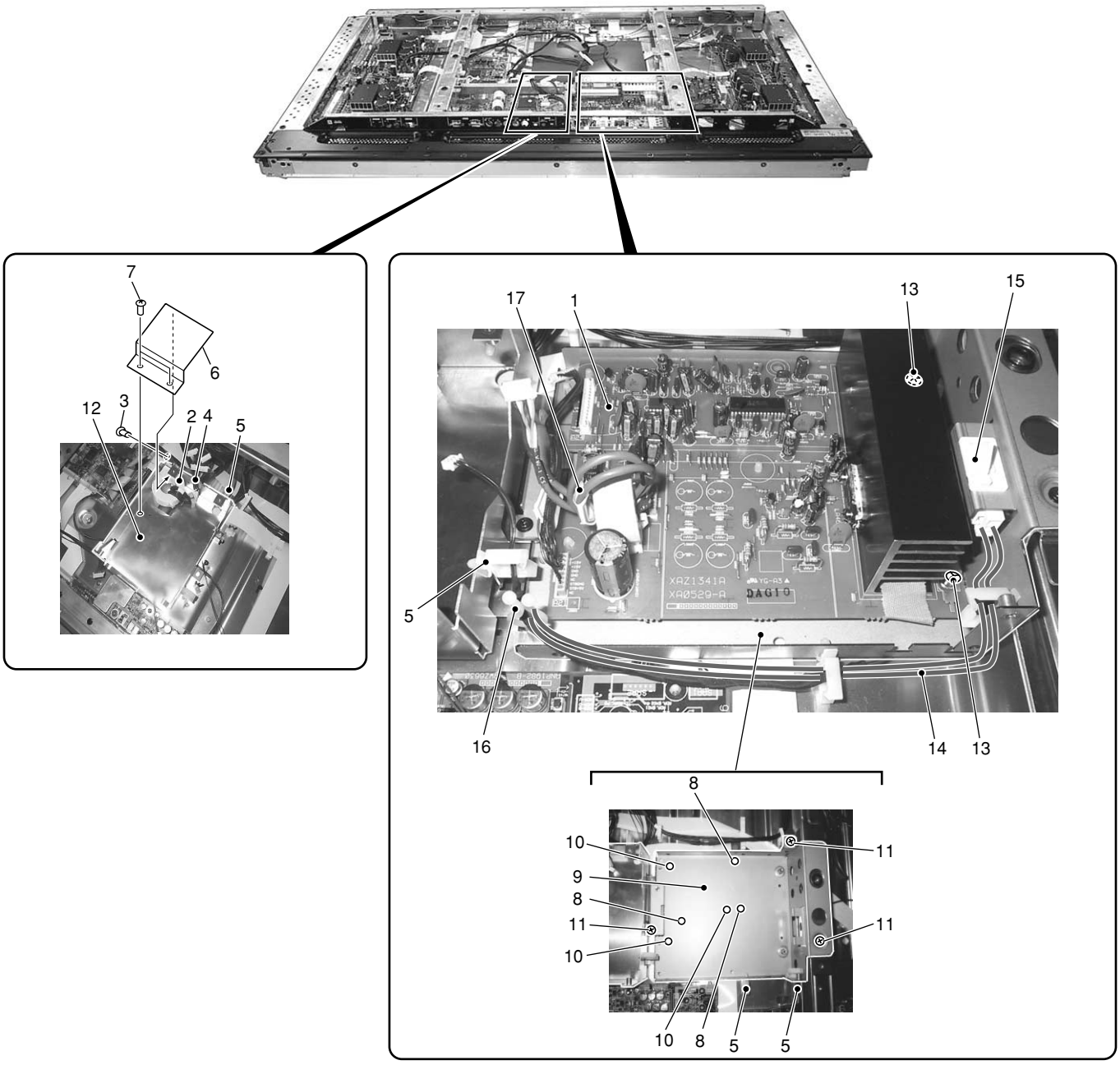
2.7 MIDDLE LAYER SECTION (1)



● MIDDLE LAYER SECTION (1) PARTS LIST

Mark	No.	Description	Part No.
	1	IR (P) Assy	AWZ6658
	2	LED Assy	AWZ6655
	3	FRONT KEY CONN Assy	AWZ6657
NSP	4	Sub Frame L	ANG2455
NSP	5	Sub Frame R	ANG2456
	6	FPC Cushion	AEB1370
NSP	7	Front Chassis V	ANA1661
	8	Screw	ABA1283
	9	Screw	ABA1294
	10	Screw	BMZ30P060FMC
	11	V Cushion	AED1205
NSP	12	Card Spacer	AEC1902
	13	Spacer B	AMR3300
	14	Power Sheet	AMR3291
	15	Rivet	BEC1066
	16	Card Corner Holder	BEC1144
	17	Niplocker	BEC1136
	18	J113 Wire J	ADX2718
NSP	19	Front Chassis H	ANA1683
NSP	20	IR Holder	ANG2494
	21	Nyron Rivet	AEC1671
	22	J104 3P Housing Wire	ADX2732
NSP	23	Switch Holder	ANG2493
	24	Screw	BMZ30P040FMC
	25	Screw	ABZ30P050FZK
	26	Ferrite Core (L6)	ATX1037
	27	Ferrite Core Holder	AEC1818
	28	Power Switch (S1)	ASG1082
	29	J106 Wire PC	ADX2723
	30	Screw	BMZ30P060FZK
	31	•••••	
	32	Gascket R	ANK1695

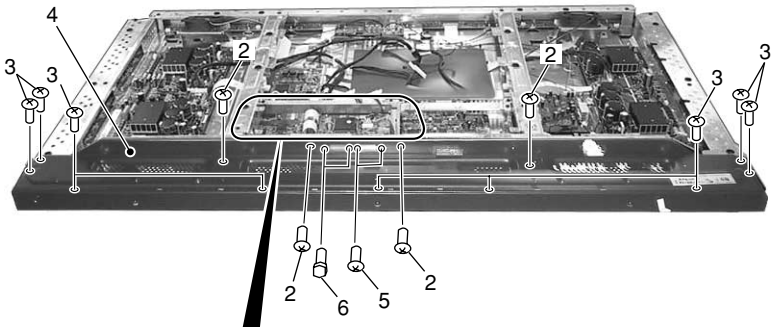
2.8 MIDDLE LAYER SECTION (2)

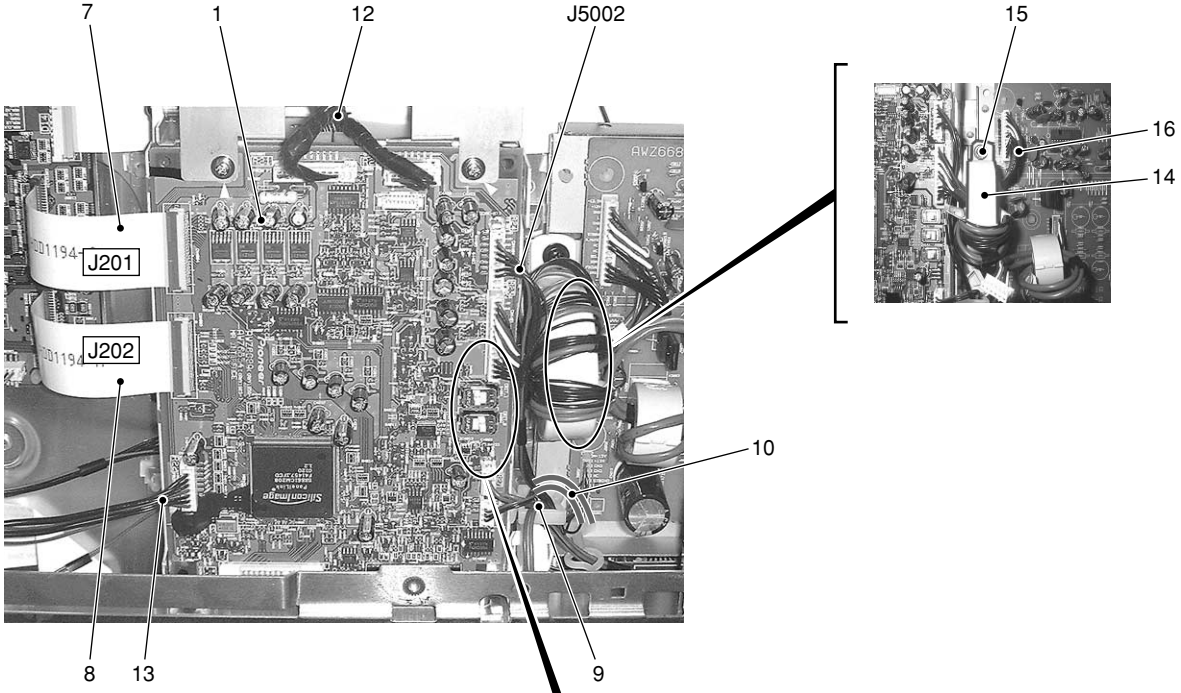


● MIDDLE LAYER SECTION (2) PARTS LIST

Mark	No.	Description	Part No.
	1	AUDIO AMP Assy	AWZ6687
	2	Toroidal Core (L2)	ATX1042
	3	Screw	ABA1294
	4	Edge Saddle	AEC1571
	5	Wire Saddle	AEC1745
	6	IF Sheet	AMR3298
	7	Nyron Rivet	AEP-211
	8	PCB Spacer	AEC1570
	9	Audio Base	ANA1687
	10	Spacer	AEC1360
	11	Screw	AMZ30P060FZK
	12	IF Shield	ANA1675
	13	Screw	PMB30P060FNI
	14	J215 3P Housing Wire	ADX2757
	15	Power Switch (S2)	ASG1089
	16	Niplocker	BEC1136
	17	J214 3P Housing Wire	ADX2735

2.9 UPPER LAYER SECTION (1)



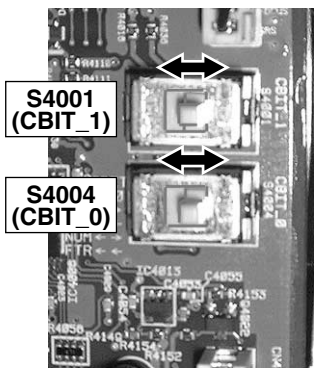


■ Caution in the MR INTERFACE Assy Replacement

Set the slide switches in accordance with applicable model when replacing the MR INTERFACE Assy.

	S4001 CBIT_1	**S4004** CBIT_0
PDP-503P	→	→
PDP-503PE	←	→
PDP-503PU	→	→

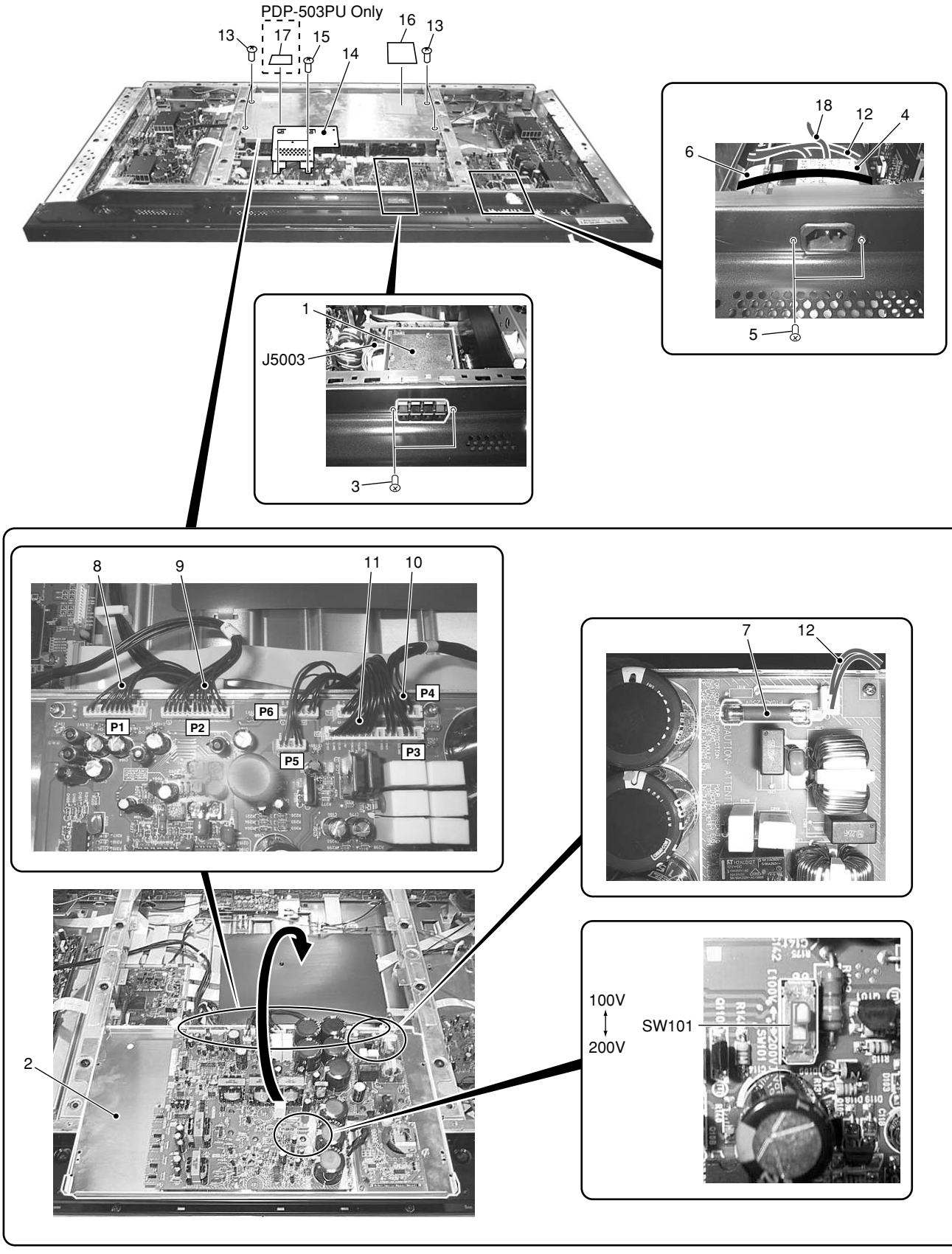
Note 1 : When there is not S4004, set only S4001.
Note 2 : When there are not S4001 and S4004, setting is unnecessary.



● UPPER LAYER SECTION (1) PARTS LIST

Mark	No.	Description	Part No.
	1	MR INTERFACE Assy	AWZ6654
	2	Screw	AMZ30P060FZK
	3	Screw	TBZ40P080FZK
	4	Terminal Panel P	ANG2472
	5	Screw	PMZ26P030FZK
	6	Hexagonal Head Screw	BBA1051
	7	J201 Flexible Flat Cable	ADD1194
	8	J202 Flexible Flat Cable	ADD1194
	9	J104 3P Housing Wire	ADX2732
	10	J214 3P Housing Wire	ADX2735
	11	•••••	
	12	J118 Wire P	ADX2765
	13	J113 Wire PJ	ADX2718
	14	Toroidal Core (L3)	ATX1042
	15	Screw	ABA1294
	16	J111 14P Housing Wire	ADX2730

2.10 UPPER LAYER SECTION (2)



(1) UPPER LAYER SECTION (2) PARTS LIST

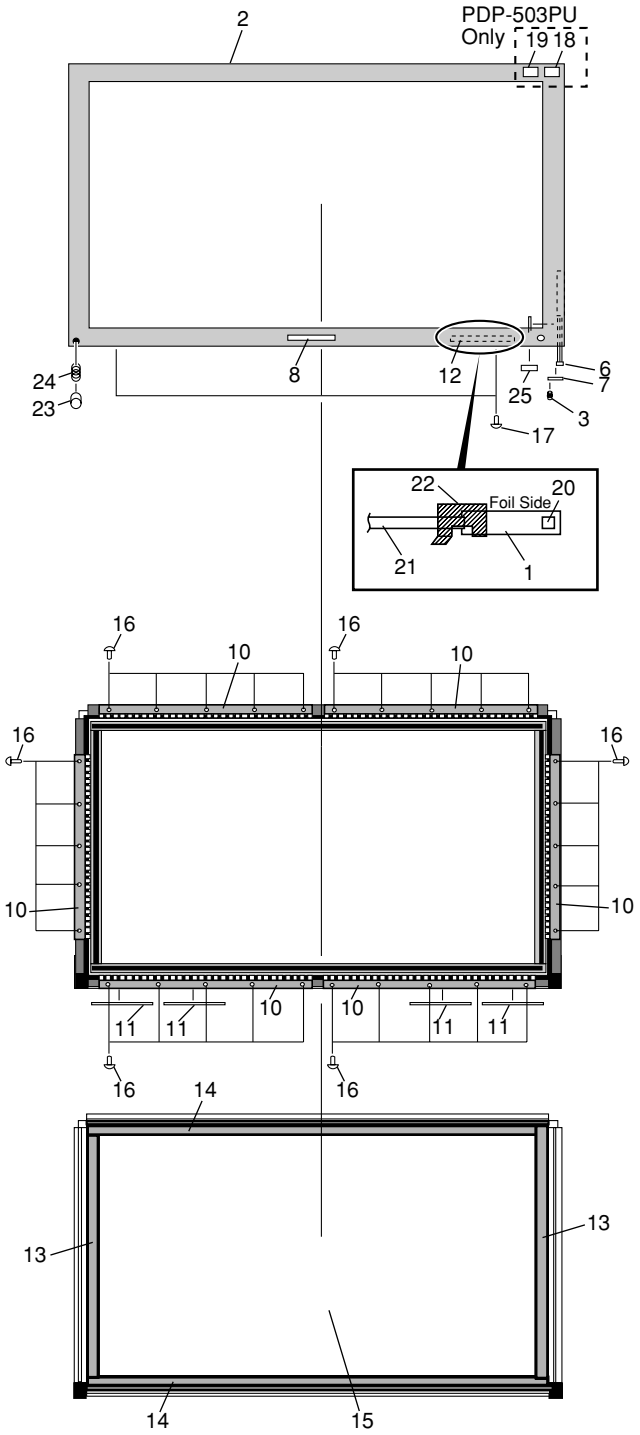
Mark	No.	Description	Part No.
	1	SP TERMINAL Assy	AWZ6688
⚠	2	SW Power Supply Module	AXY1053
	3	Screw	BPZ30P080FZK
⚠	4	AC Inlet with Noise Filter (CN1)	AKP1223
	5	Screw	BMZ30P060FZK
⚠	6	Ferrite Core (L1)	ATX1032
⚠	7	Fuse (10A)	See Contrast table (2)
	8	J118 Wire P	ADX2765
	9	J101 13P Housing Wire	ADX2726
	10	J103 13P Housing Wire	ADX2700
	11	J102 Wire E	ADX2694
	12	J105 Wire PB	ADX2722
	13	Screw	AMZ30P060FZK
	14	IF Earth Metal	ANA1690
	15	Screw	PMB30P060FNI
	16	Silicone Sheet	AEH1035
	17	Solder Warning Label	See Contrast table (2)
	18	J114 Earth Wire	ADX2709

(2) CONTRAST TABLE

PDP-503PE/WYVI6 and PDP-503PU/KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			PDP-503PE	PDP-503PU	
			WYVI6	KUC	
⚠	7	Fuse (10A)	AEK1071	AEK1069	
	17	Solder Warning Label	Not used	AAX2644	

2.11 FRONT CASE SECTION



(1) FRONT CASE SECTION PARTS LIST

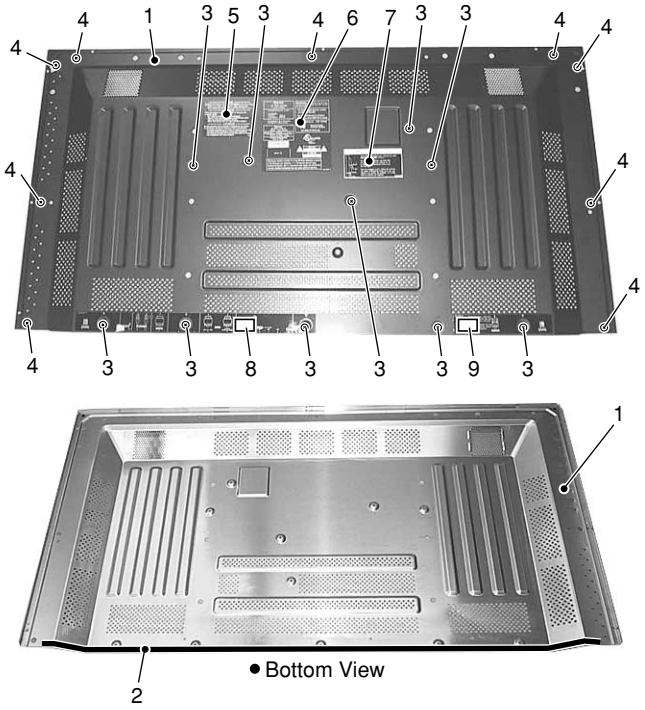
Mark	No.	Description	Part No.
	1	FRONT KEY Assy	AWZ6656
	2	Front Case 50 (P)	AMB2722
	3	Rivet	AEC1877
	4	• • • • •	
	5	• • • • •	
	6	Ferrite Core (L5)	ATX1043
	7	Lead Cover (P)	AMB2704
	8	Pioneer Badge	AAM1091
	9	• • • • •	
NSP	10	Panel Holder	ANG2508
	11	Front Spacer	AEC1896
	12	• • • • •	
	13	Panel Cushion V	AED1199
	14	Panel Cushion H	AED1198
	15	Protect Panel Assy	AMR3304
	16	Screw	ABZ30P050FZK
	17	Screw	VMZ30P060FZK
	18	Energy Star Label	See Contrast table (2)
	19	HDTV Label	See Contrast table (2)
	20	PCB Spacer	AEC1913
	21	J213 Flexible Flat Cable	ADD1193
NSP	22	Flexible Seal (P)	AEH1052
	23	Power Button	AAD4113
	24	Coil Spring	ABH1108
	25	Serial Sheet	AAX2609

(2) CONTRAST TABLE

PDP-503PE/WYVI6 and PDP-503PU/KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			PDP-503PE	PDP-503PU	
			WYVI6	KUC	
	18	Energy Star Label	Not used	AAX2865	
	19	HDTV Label	Not used	AAX2891	

2.12 REAR SECTION



(1) REAR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Rear Case (50P)	ANE1598
	2	Gascket A	ANK1688
	3	Screw	AMZ30P060FZK
	4	Screw	TBZ40P080FZK
	5	Cleaning Label	AAX2751
NSP	6	Name Label (HD)	See Contrast table (2)
	7	Bolt Caution Label	AAX2852
	8	Terminal Display Label P	AAX2858
	9	Terminal Display Label L	See Contrast table (2)

(2) CONTRAST TABLE

PDP-503PE/WYVI6 and PDP-503PU/KUC are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			PDP-503PE	PDP-503PU	
			WYVI6	KUC	
NSP	6	Name Label (HD)	AAL2358	AAL2357	
	9	Terminal Display Label L	AAX2860	AAX2859	

2.13 PDP SERVICE ASSY 503 (AWU1040)

PDP Service Assy 503 (AWU1040) consists of the following parts.

● PARTS LIST

Mark	No.	Description	Part No.
		Panel Chassis (50) Assy	AWU1037
NSP		Front Chassis V	ANA1661
NSP		Front CHassis H (W)	ANA1679
NSP		Front Chassis H	ANA1683
NSP		Sub Frame L	ANG2499
NSP		Sub Frame R	ANG2500
		Scan IC Spring (L)	ABK1026
		Scan IC Spring (R)	ABK1027
NSP		Metal Fitting	ANG2464
		FPC Cushion 50	AEB1370
NSP		PCB Spacer	AEC1211
		Locking Card Spacer	AEC1736
		Circuit Board Spacer	AEC1872
		Circuit Board Spacer	AEC1873
		Spacer	AEC1896
NSP		Card Spacer	AEC1902
		Wire Saddle	AEC1904
		Panel Cushion H	AED1198
		Panel Cushion V	AED1199
		V Cushion	AED1205
		Insullation Sheet	AMR3263
		Scan Insullation Sheet	AMR3271
		Niplocker	BEC1136
		Card Corner Holder	BEC1144
		Screw	ABA1283
		Screw	ABA1294
		Screw	ABZ30P060FMC
		Screw	BMZ30P060FMC
		Screw	PMB30P060FNI
		Screw	VBB30P100FNI
		Bolt	ABA1259
		Corner Pad	AHA2203
		Corner Pad	AHA2204
		Upper Carton	AHD3119
		Under Carton	AHD3120
		Packing Sheet	AHG1291
		Fitting Board	AHK1012
		Washer	WB80FZB

2.14 PANEL CHASSIS (50) ASSY (AWU1037)

Panel Chassis (50) Assy (AWU1037) consists of the following parts.

● PARTS LIST

Mark	No.	Description	Part No.	
NSP		SCAN FUKUGO ASSY	AWV1898	*
		ADDRESS FUKUGO ASSY	AWV1900	*
NSP		Address Module (IC1 - IC40)	AXF1110	
NSP		FPC (0003)	ADY1065	
NSP		FPC (J0001)	ADY1066	
NSP		Chassis Assy	ANA1696	
NSP		├─ Chassis	ANA1655	
NSP		├─ Base Chassis	ANA1656	
NSP		├─ Scan Heatsink	ANH1595	
NSP		├─ Corner Angle A	ANG2457	
NSP		├─ Corner Angle B	ANG2458	
		├─ Panel Silicone Sheet	AEH1055	
NSP		├─ Tube Cover	AMR3262	
		├─ Silicone Sheet 50	AEH1037	
		├─ Adhesive Tape 50	AEH1038	
		└─ Adhesive Tape B (50)	AEH1051	
		Pin Grommet	AEC1015	
		Card Spacer	AEC1889	
		Scan Silicone Sheet	AEH1040	
NSP		Plasma Panel Assy	AAV1238	
		Screw	VBB30P100FNI	

● LIST OF ASSY

Mark	No.	Description	Part No.
NSP		SCAN FUKUGO ASSY	AWV1898
NSP		├─ SCAN (A) ASSY	AWZ6616
NSP		├─ SCAN (B) ASSY	AWZ6617
NSP		├─ X CONNECTOR (A) ASSY	AWZ6618
NSP		├─ X CONNECTOR (B) ASSY	AWZ6619
NSP		├─ BRIDGE A ASSY	AWZ6620
NSP		├─ BRIDGE B ASSY	AWZ6621
NSP		├─ BRIDGE C ASSY	AWZ6622
NSP		├─ BRIDGE D ASSY	AWZ6623
NSP		├─ CLAMP A ASSY	AWZ6650
NSP		├─ CLAMP B ASSY	AWZ6651
NSP		├─ CLAMP C ASSY	AWZ6652
NSP		└─ CLAMP D ASSY	AWZ6653
		ADDRESS FUKUGO ASSY	AWV1900
NSP		├─ ADR CONNECT A ASSY	AWZ6626
NSP		├─ ADR CONNECT B ASSY	AWZ6627
NSP		├─ ADR CONNECT C ASSY	AWZ6628
NSP		├─ ADR CONNECT D ASSY	AWZ6629
		└─ ADR RESONANCE ASSY	AWZ6630

■ Caution in Replacement of Chassis Block

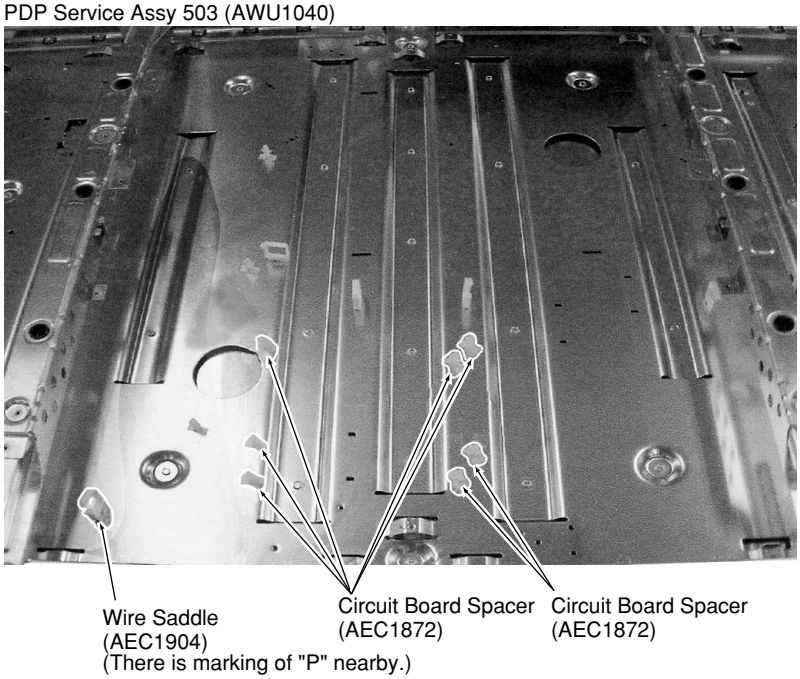
Please order the PDP Service Assy 503 (AWU1040) when replacing the Chassis block.
PDP Service Assy 503 is all common use parts of for business, public use and module.
Supply it by the state that installed Circuit Board Spacer (AEC1872) and Wire Saddle (AEC1904) as follows.
Therefore need to remove it in accordance with model.

Confirm character carved a seal near the parts, and remove it.

P : Public exclusive use
W : Module exclusive use
PW : Common use of public use and module

∗ In case of this unit, the parts that "W" is marked removes all.

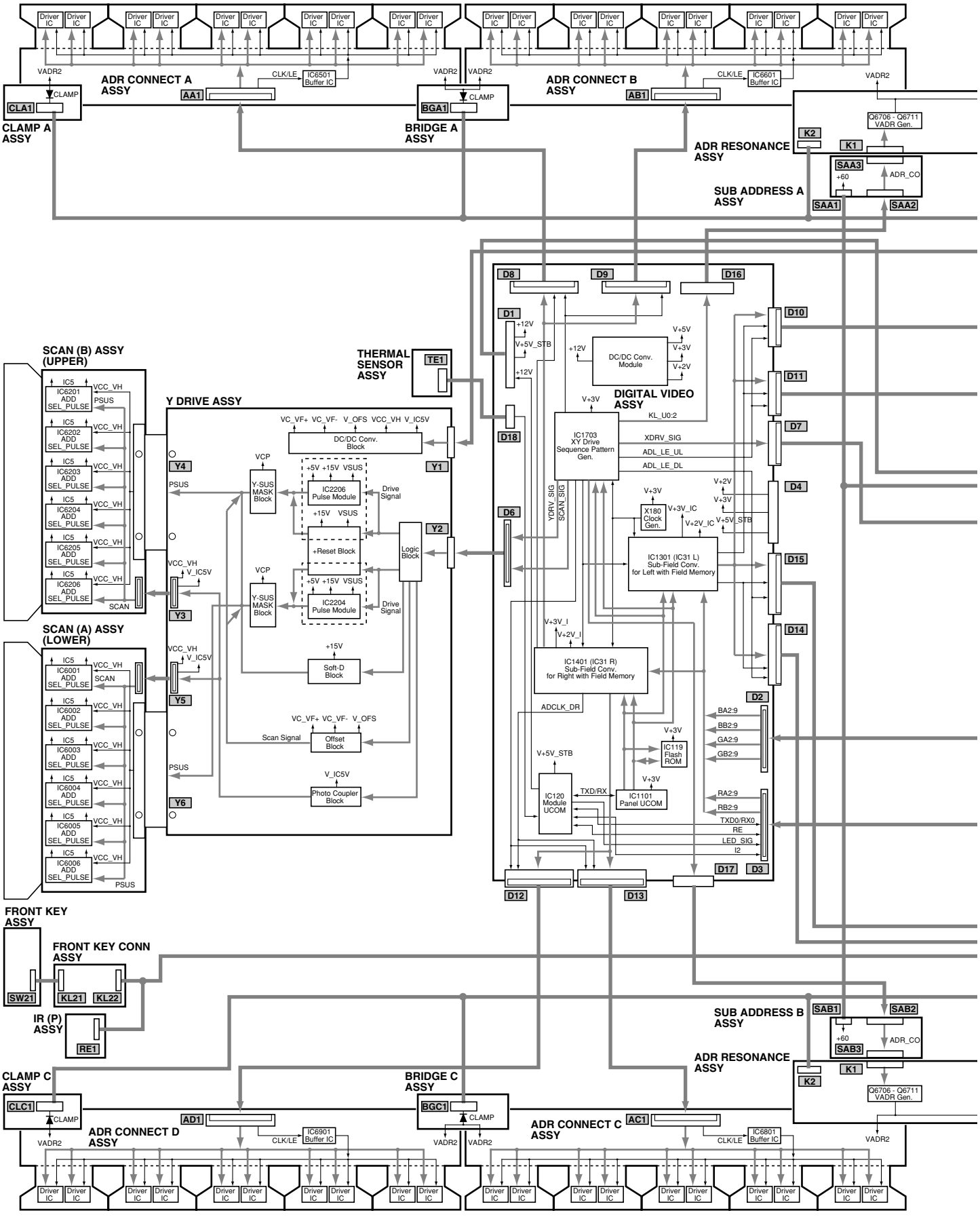
PDP Service Assy 503 (AWU1040)



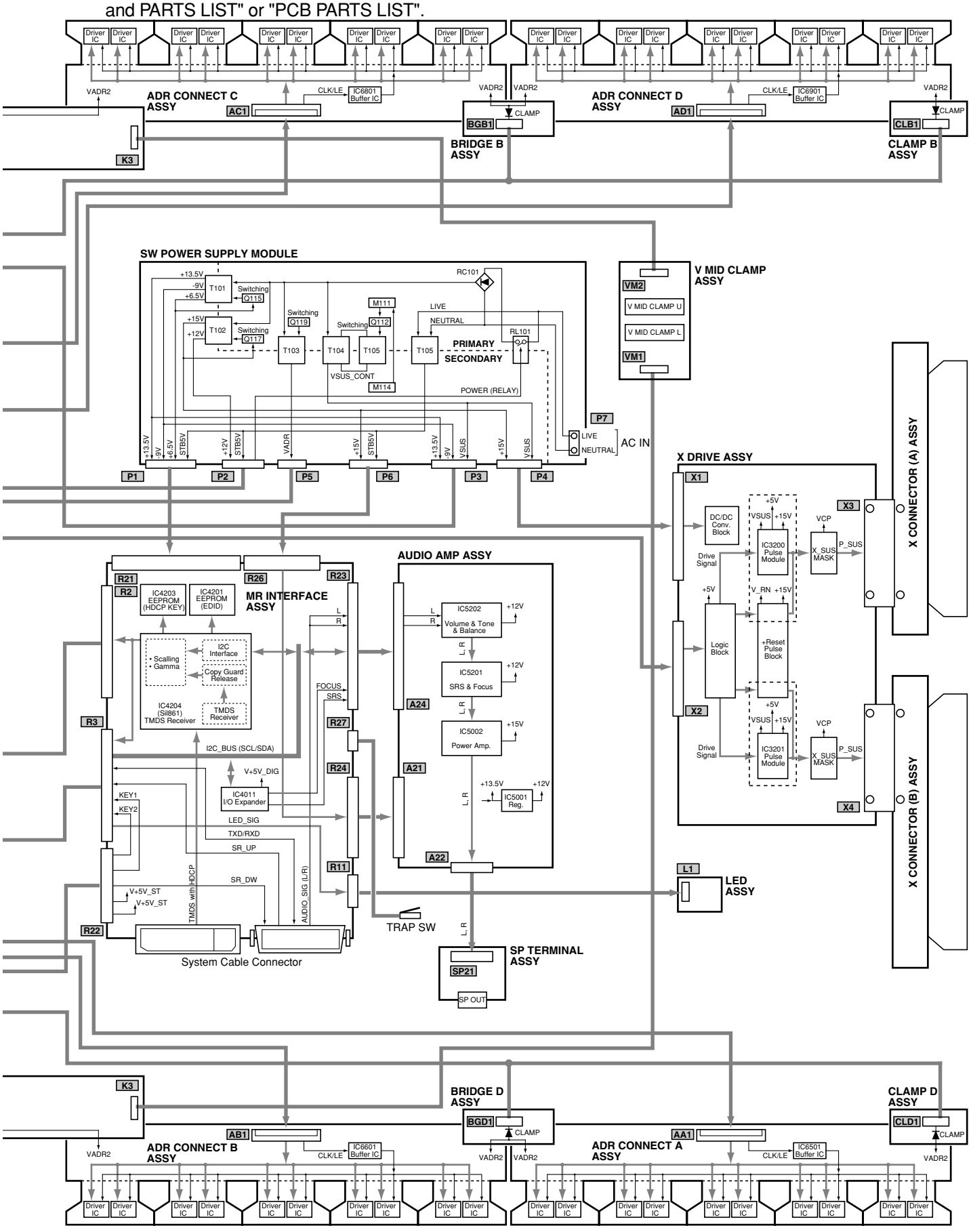
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

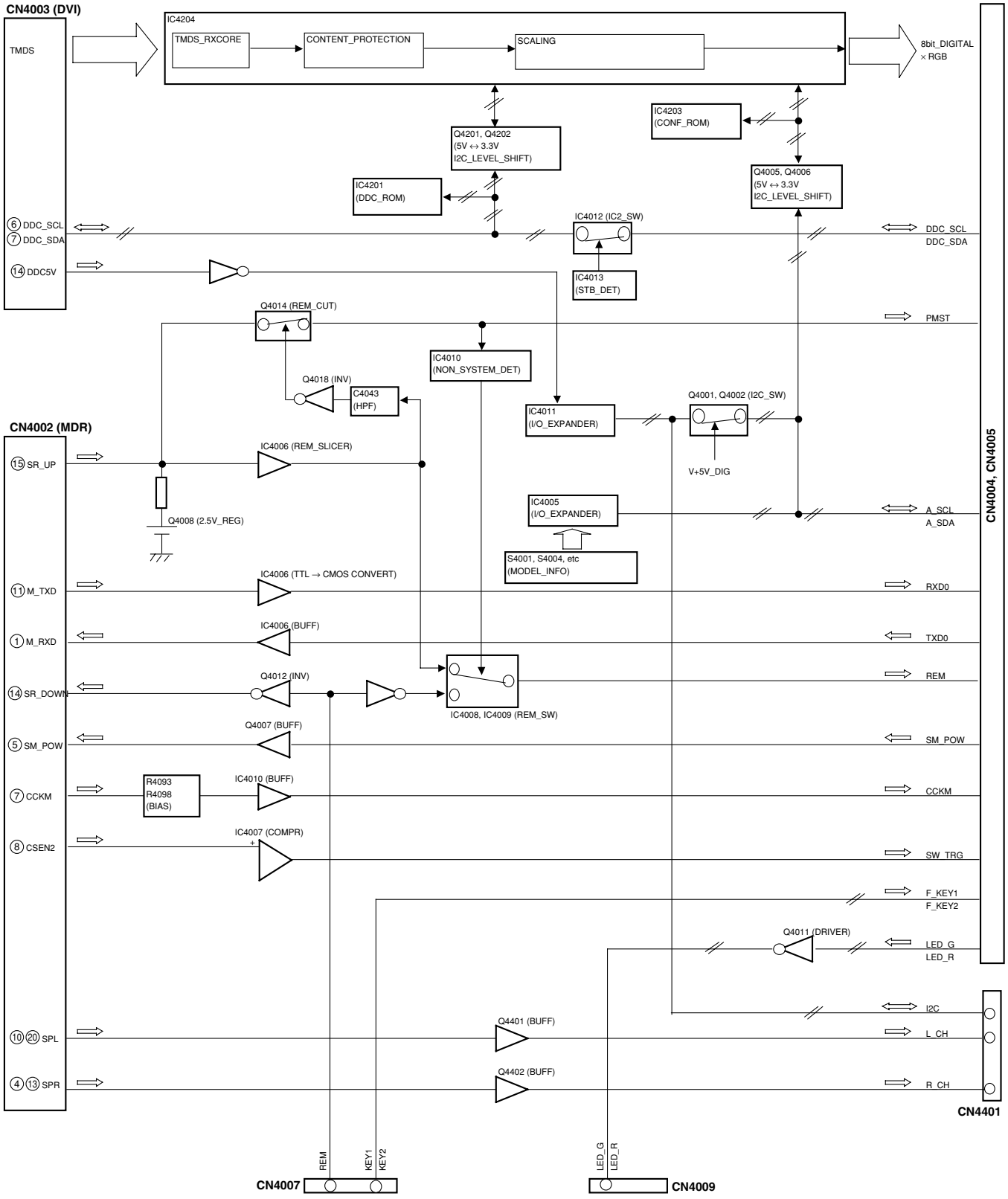
3.1.1 OVERALL DIAGRAM



Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.1.2 MR INTERFACE ASSY



● Voltages

CN4002 (MDR Connector) (↔ Media Receiver)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	M_RXD	232C bus (PDP → MR)	0-5V swing square wave
2	GND		
3	SENCE	Connecting detection for MR	0.0V DC
4	SPR	Audio signal R ch	Analog audio signal wave
5	SMPOW	MR relay control	3.5V DC
6	GND		
7	CCKM	System activation detection	1.9V DC
8	CSEN2	System activation signal	5.0V DC
9	CSEN1	Not used	
10	SPL	Audio signal L ch	Analog audio signal wave
11	M_TXD	232C bus (MR → PDP)	0-3.3V swing square wave
12	GND		
13	SPR	Audio signal R ch	Analog audio signal wave
14	SR_DW	Remote control signal	5.0V DC
15	SR_UP	MDR connecting detection signal multiplex remote control signal	3.75V DC
16	GND		
17	FRASH_W	Not used	
18	SRST	Not used	
19	GND		
20	SPL	Audio signal L ch	Analog audio signal wave

CN4003 (DVI Connector) (↔ Media Receiver)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	RX2-	DVI signal	DVI signal
2	RX2+	DVI signal	DVI signal
3	GND		
4	NC		
5	NC		
6	DDC_SCL	I2C for DDC	0-5V swing square wave
7	DDC_SDA	I2C for DDC	0-5V swing square wave
8	NC		
9	RX1-	DVI signal	DVI signal
10	RX1+	DVI signal	DVI signal
11	GND		
12	NC		
13	NC		
14	DDC_+5V	I2C power supply for DDC	5.0V DC
15	GND		
16	HPD	HOT_PLUG detection	5.0V DC
17	RX0-	DVI signal	DVI signal
18	RX0+	DVI signal	DVI signal
19	GND		
20	NC		
21	NC		
22	GND		
23	RXC+	DVI signal	DVI signal
24	RXC-	DVI signal	DVI signal

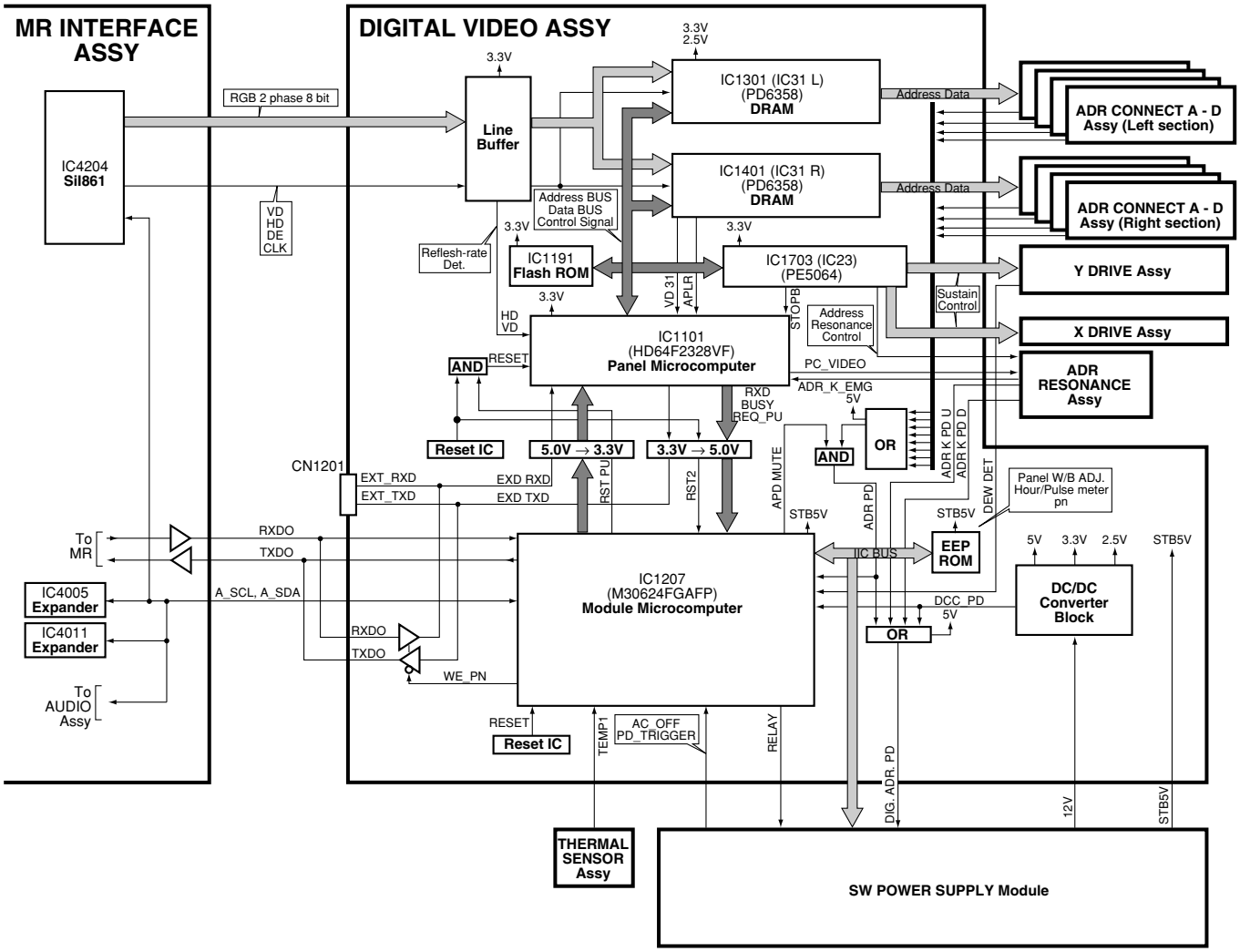
CN4004 (50P_FFC Connector) (↔ DIGITAL VIDEO Assy)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	GND		
2	GND		
3	NC		
4	NC		
5	NC		
6	NC		
7	BB0	8 bit video signal	0-3.3V swing square wave
8	BA0	8 bit video signal	0-3.3V swing square wave
9	BB1	8 bit video signal	0-3.3V swing square wave
10	BA1	8 bit video signal	0-3.3V swing square wave
11	BB2	8 bit video signal	0-3.3V swing square wave
12	BA2	8 bit video signal	0-3.3V swing square wave
13	BB3	8 bit video signal	0-3.3V swing square wave
14	BA3	8 bit video signal	0-3.3V swing square wave
15	BB4	8 bit video signal	0-3.3V swing square wave
16	BA4	8 bit video signal	0-3.3V swing square wave
17	BB5	8 bit video signal	0-3.3V swing square wave
18	BA5	8 bit video signal	0-3.3V swing square wave
19	BB6	8 bit video signal	0-3.3V swing square wave
20	BA6	8 bit video signal	0-3.3V swing square wave
21	BB7	8 bit video signal	0-3.3V swing square wave
22	BA7	8 bit video signal	0-3.3V swing square wave
23	GND		
24	GND		
25	NC		
26	NC		
27	NC		
28	NC		
29	GB0	8 bit video signal	0-3.3V swing square wave
30	GA0	8 bit video signal	0-3.3V swing square wave
31	GB1	8 bit video signal	0-3.3V swing square wave
32	GA1	8 bit video signal	0-3.3V swing square wave
33	GB2	8 bit video signal	0-3.3V swing square wave
34	GA2	8 bit video signal	0-3.3V swing square wave
35	GB3	8 bit video signal	0-3.3V swing square wave
36	GA3	8 bit video signal	0-3.3V swing square wave
37	GB4	8 bit video signal	0-3.3V swing square wave
38	GA4	8 bit video signal	0-3.3V swing square wave
39	GB5	8 bit video signal	0-3.3V swing square wave
40	GA5	8 bit video signal	0-3.3V swing square wave
41	GB6	8 bit video signal	0-3.3V swing square wave
42	GA6	8 bit video signal	0-3.3V swing square wave
43	GB7	8 bit video signal	0-3.3V swing square wave
44	GA7	8 bit video signal	0-3.3V swing square wave
45	GND		
46	GND		
47	NC		
48	NC		
49	GND		
50	GND		

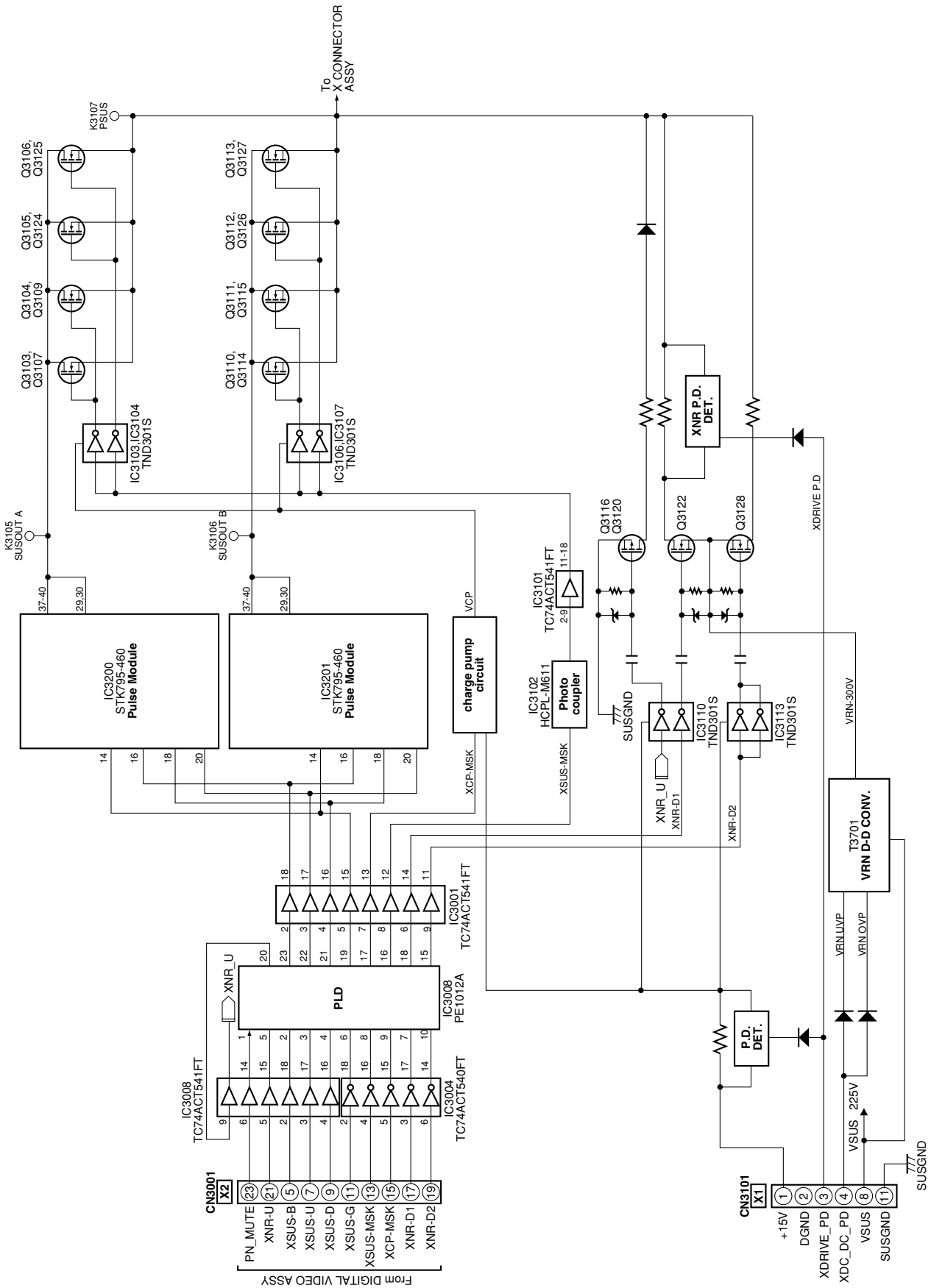
CN4005 (50P_FFC Connector) (↔ DIGITAL VIDEO Assy)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	NC		
2	NC		
3	NC		
4	NC		
5	RB0	8 bit video signal	0-3.3V swing square wave
6	RA0	8 bit video signal	0-3.3V swing square wave
7	RB1	8 bit video signal	0-3.3V swing square wave
8	RA1	8 bit video signal	0-3.3V swing square wave
9	RB2	8 bit video signal	0-3.3V swing square wave
10	RA2	8 bit video signal	0-3.3V swing square wave
11	RB3	8 bit video signal	0-3.3V swing square wave
12	RA3	8 bit video signal	0-3.3V swing square wave
13	RB4	8 bit video signal	0-3.3V swing square wave
14	RA4	8 bit video signal	0-3.3V swing square wave
15	RB5	8 bit video signal	0-3.3V swing square wave
16	RA5	8 bit video signal	0-3.3V swing square wave
17	RB6	8 bit video signal	0-3.3V swing square wave
18	RA6	8 bit video signal	0-3.3V swing square wave
19	RB7	8 bit video signal	0-3.3V swing square wave
20	RA7	8 bit video signal	0-3.3V swing square wave
21	GND		
22	CLK	Clock	0-3.3V swing square wave (40MHz)
23	GND		
24	DE	Data enable	0-3.3V swing square wave (+ polarity)
25	GND		
26	HD	Horizontal sync. signal	0-3.3V swing square wave
27	GND		(- polarity 48.4kHz)
28	VD	Vertical sync. signal	0-3.3V swing square wave
29	GND		(- polarity 60.0Hz)
30	A_SCL	I2C bus	0-5V swing square wave
31	F_KEY1	Front key signal 1	5.0V DC
32	PMST	MDR connecttion Detect signal	3.75V DC
33	SMPOW	MRrelay control	5.0V DC
34	A_MUTE	Audio mute	0.0V DC
35	CCKM	System activation detect	1.9V DC
36	M_STATE	Sil861 I2C bus master infomation	0.0V DC
37	SW_STC	Not used	
38	A_NG	Not used	
39	SW_TRG	System activation signal	5.0V DC
40	F_KEY2	Front key signal 2	5.0V DC
41	A_SDA	I2C bus	0-5V swing square wave
42	*LED_G	Green LED control signal	0.0V DC
43	TXD0	232C bus	0-5V swing square wave
44	*LED_R	Red LED control signal	5.0V DC
45	RXD0	232C bus	0-5V swing square wave
46	DDC_SCL	I2C for DDC	0-5V swing square wave
47	REM	Remote control signal	5.0V DC
48	DDC_SDA	I2C for DDC	0-5V swing square wave
49	GND		
50	GND		

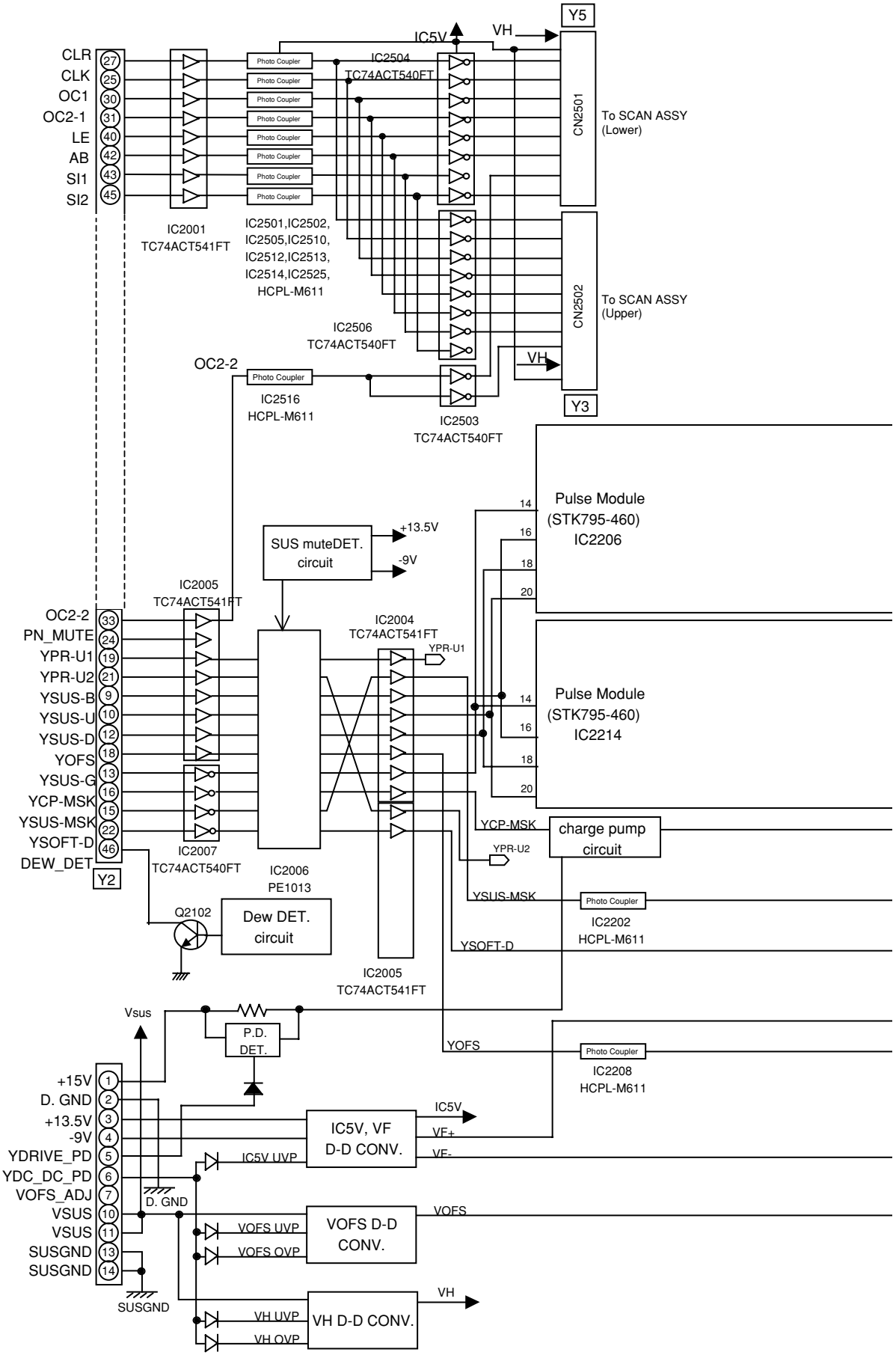
3.1.3 DIGITAL VIDEO ASSY

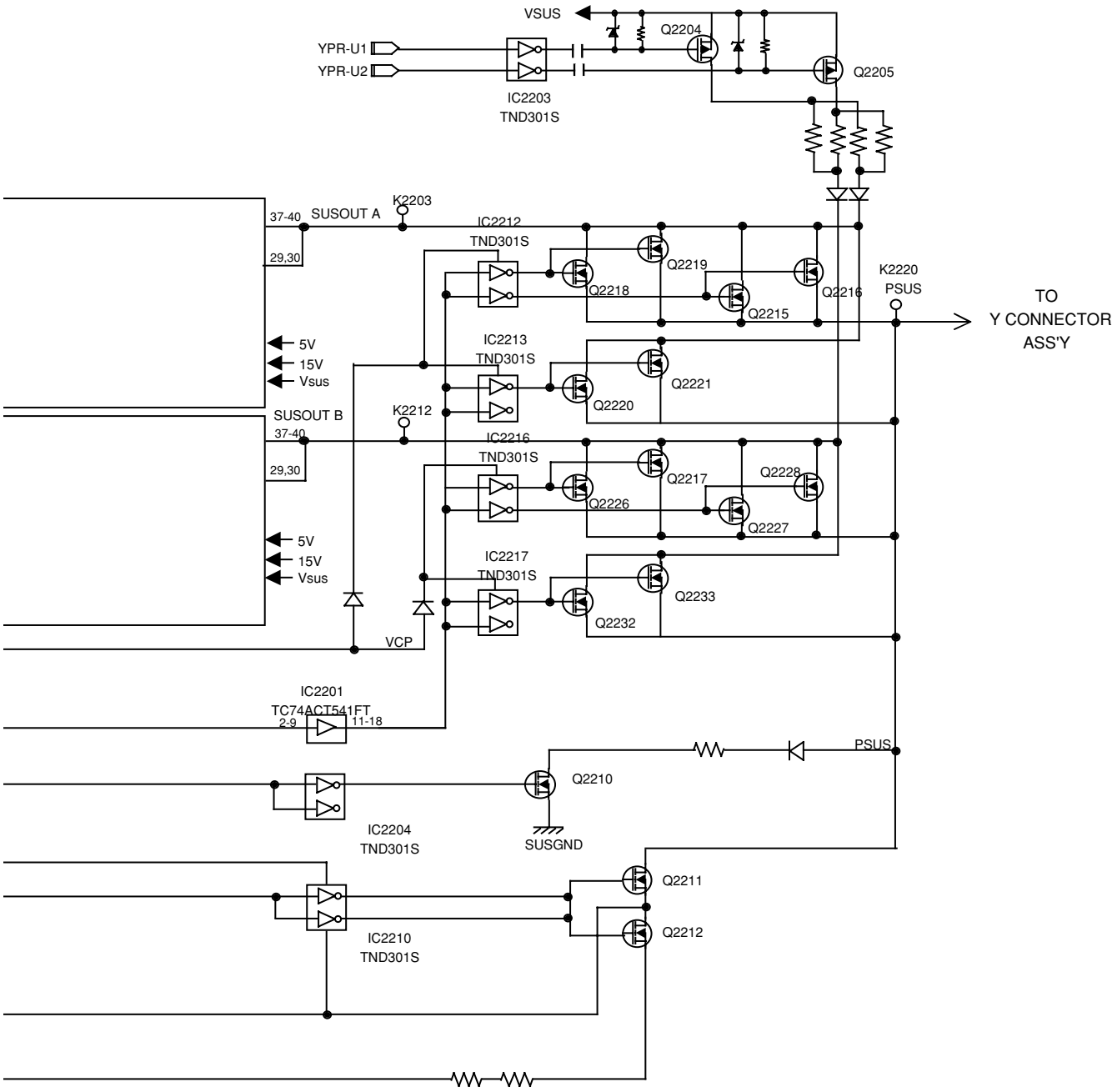


3.1.4 X DRIVE ASSY

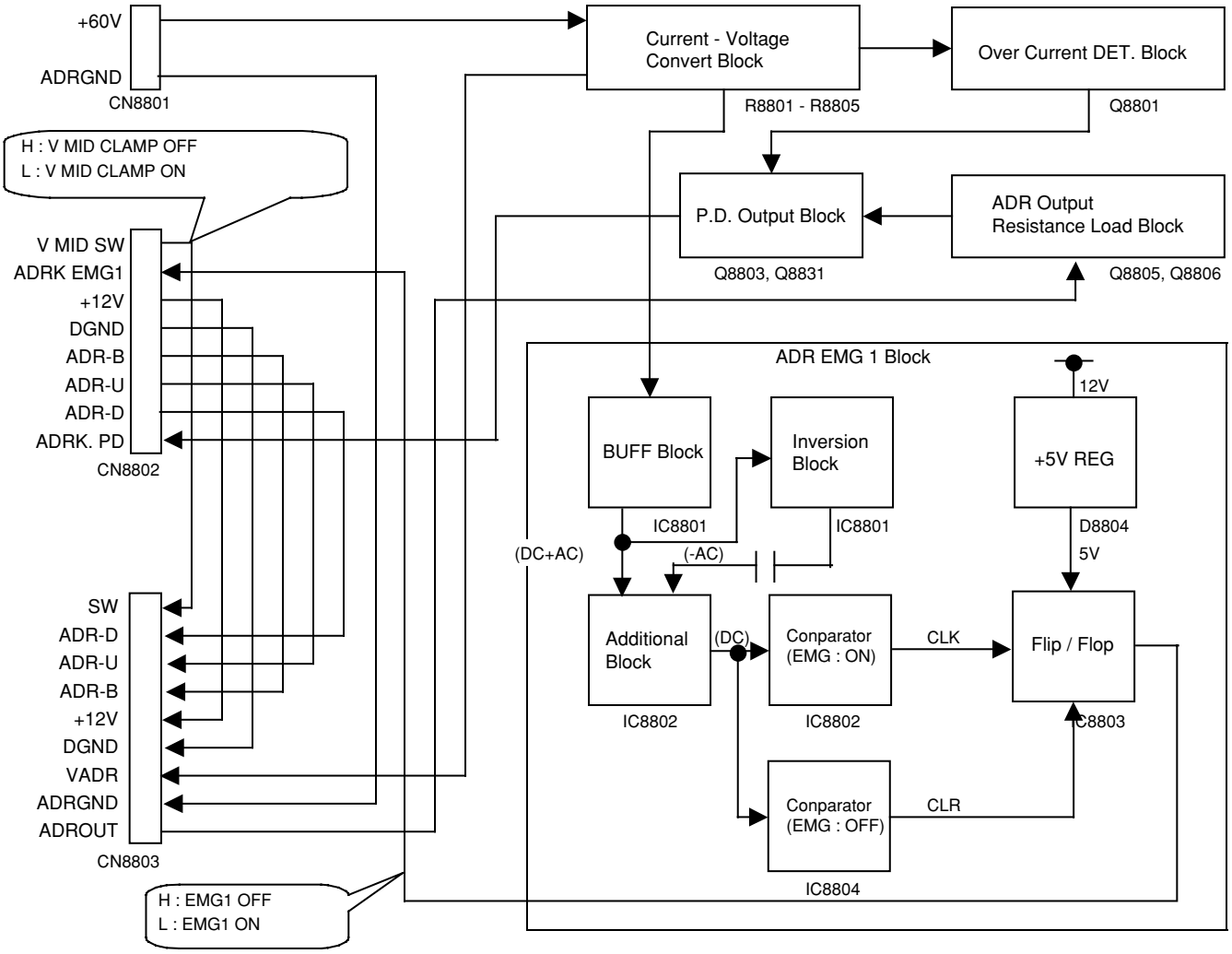


3.1.5 Y DRIVE ASSY

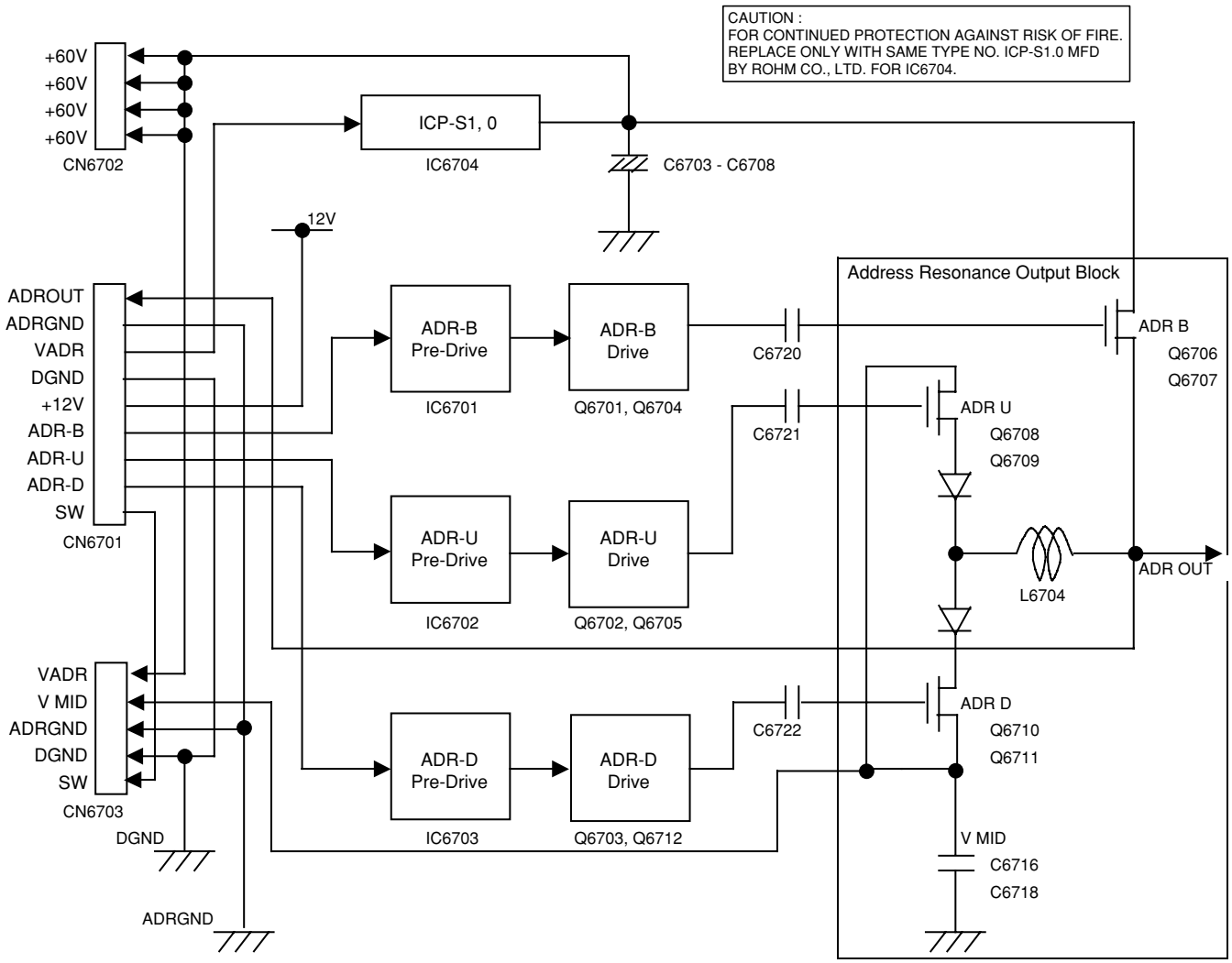



VSUS
Q2204
YPR-U1
YPR-U2
Q2205
IC2203
TND301S
K2203
37-40
SUSOUT A
IC2212
TND301S
29,30
Q2219
Q2218
Q2216
Q2215
K2220
PSUS
TO
Y CONNECTOR
ASS'Y
5V
15V
Vsus
IC2213
TND301S
Q2221
Q2220
SUSOUT B
K2212
37-40
IC2216
TND301S
29,30
Q2217
Q2228
Q2226
Q2227
5V
15V
Vsus
IC2217
TND301S
Q2233
Q2232
VCP
IC2201
TC74ACT541FT
2-9
11-18
PSUS
Q2210
IC2204
TND301S
SUSGND
Q2211
Q2212
IC2210
TND301S

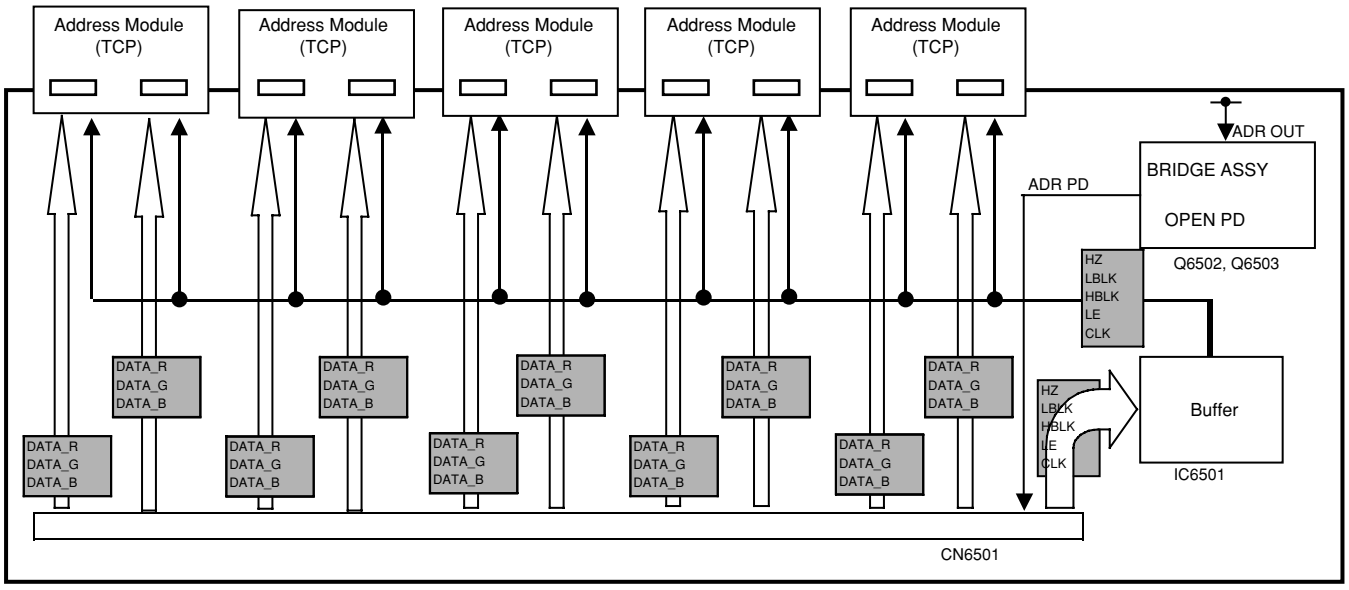
3.1.6 SUB ADDRESS A and B ASSYS



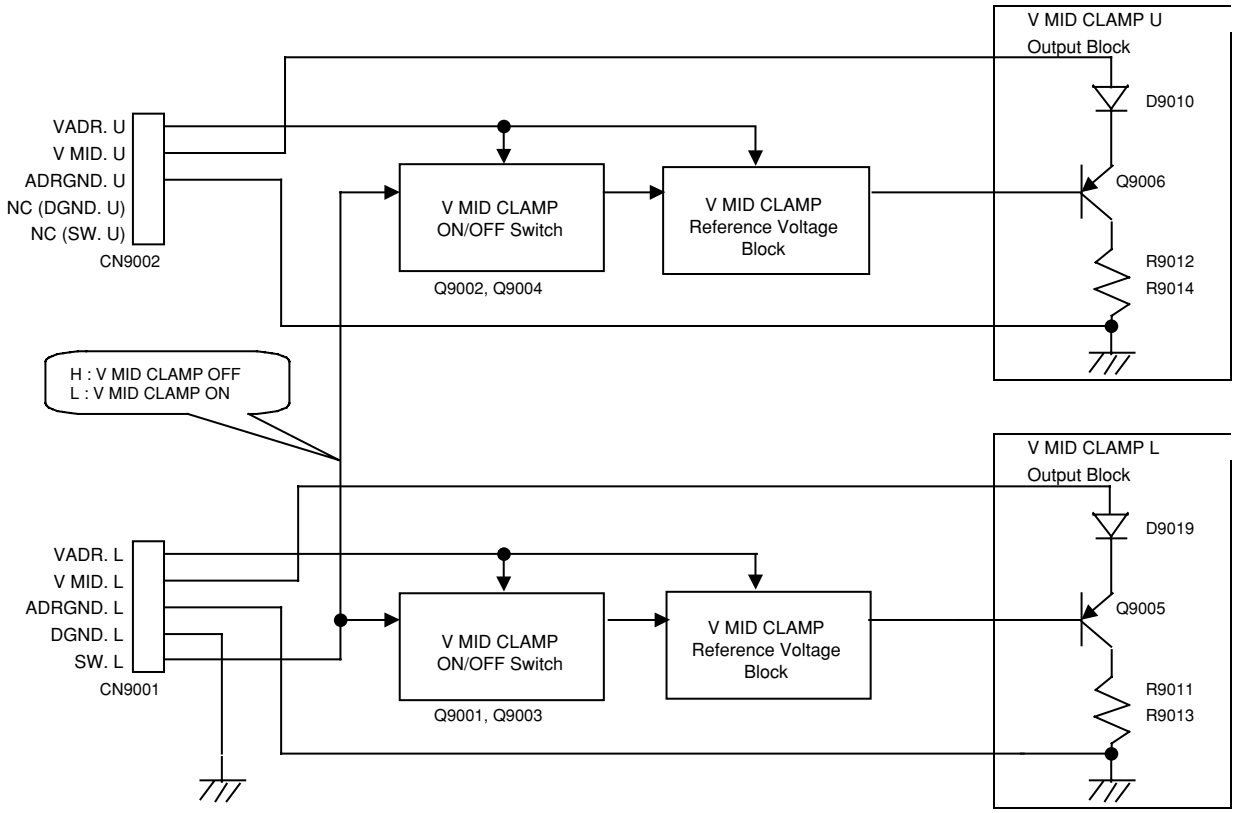
3.1.7 ADR RESONANCE ASSY



3.1.8 ADR CONNECT A, B, C and D ASSYS



3.1.9 V MID CLAMP ASSY



3.1.10 AUDIO AMP and SP TERMINAL ASSYS

AUDIO AMP ASSY

IC5202 (CXA2021S)

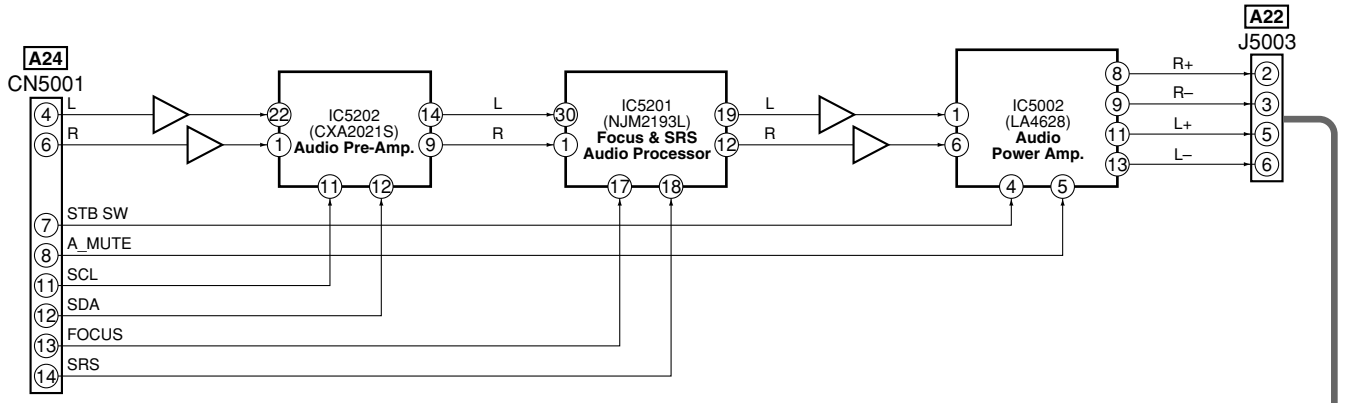
No.	Voltage (V)	No.	Voltage (V)
1	5.9	12	5.25
2	0	13	1.73
3	5.95	14	5.95
4	5.94	15	5.92
5	5.98	16	5.91
6	6.02	17	5.93
7	6.02	18	5.92
8	7.38	19	5.94
9	5.95	20	5.95
10	1.55	21	11.91
11	5.24	22	5.9

IC5201 (NJM2193L)

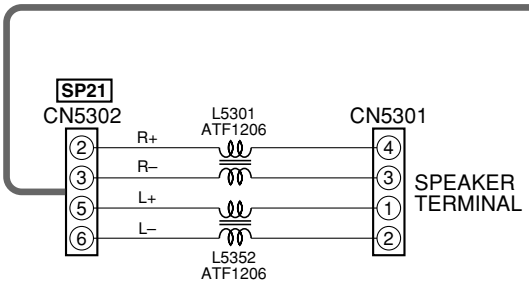
No.	Voltage (V)	No.	Voltage (V)
1	5.95	16	11.91
2	5.94	17	0
3	5.84	18	0
4	5.98	19	5.98
5	5.98	20	5.91
6	5.97	21	5.97
7	5.98	22	5.98
8	5.98	23	5.98
9	5.98	24	5.98
10	5.97	25	5.97
11	5.97	26	5.98
12	5.98	27	5.98
13	5.96	28	5.84
14	5.98	29	5.94
15	0	30	5.95

IC5002 (LA4628)

No.	Voltage (V)
1	1.6
2	7.5
3	0
4	3.37
5	2.29
6	1.6
7	1.97
8	7.3
9	7.3
10	0
11	7.3
12	0
13	7.3
14	15



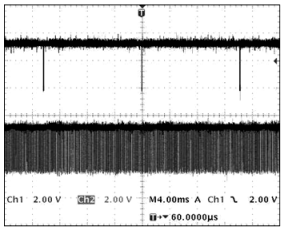
SP TERMINAL ASSY



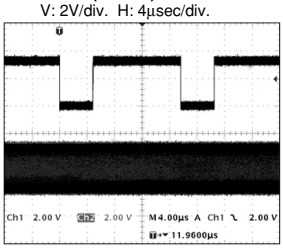
3.2 WAVEFORMS

DIGITAL VIDEO ASSY

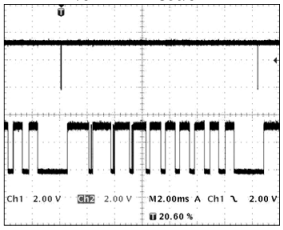
① K1327 (VDI)
K1328 (HDI)
V: 2V/div. H: 4msec/div.



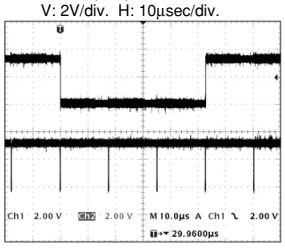
④ K1326 (DEI)
K1333 (VCLKL)
V: 2V/div. H: 4µsec/div.



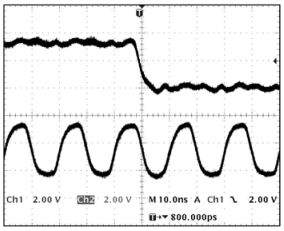
⑧ K1308 (VDRB)
IC1501 - pin 15 (LBLK)
V: 2V/div. H: 2msec/div.



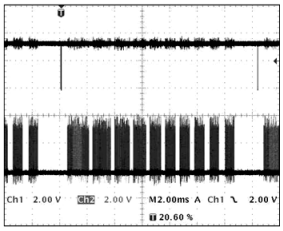
① K1327 (VDI)
K1328 (HDI)
V: 2V/div. H: 10µsec/div.



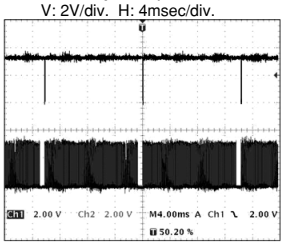
④ K1326 (DEI)
K1333 (VCLKL)
V: 2V/div. H: 10nsec/div.



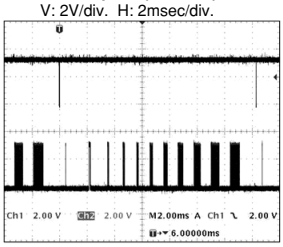
⑨ K1308 (VDRB)
IC1501 - pin 13 (LE)
V: 2V/div. H: 2msec/div.



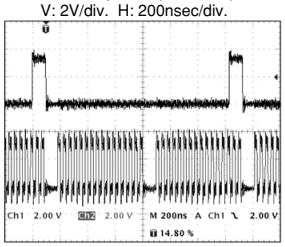
② K1327 (VDI)
CN1004 pin 49 (R DIGITAL VIDEO)
V: 2V/div. H: 4msec/div.



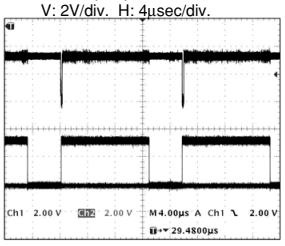
⑤ K1308 (VDRB)
R1713 - pin 7 (XSUS_B)
V: 2V/div. H: 2msec/div.



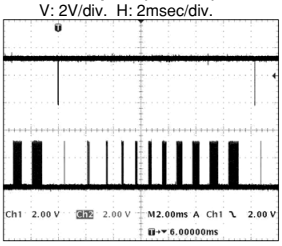
⑩ IC1501 - pin 13 (LE)
IC1501 - pin 11 (ADRCLK)
V: 2V/div. H: 200nsec/div.



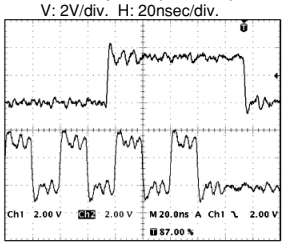
③ K1328 (HDI)
K1326 (DEI)
V: 2V/div. H: 4µsec/div.



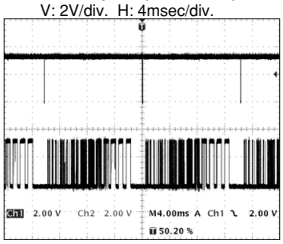
⑥ K1308 (VDRB)
R1703 - pin 8 (YSUS_B)
V: 2V/div. H: 2msec/div.



⑩ IC1501 - pin 13 (LE)
IC1501 - pin 11 (ADRCLK)
V: 2V/div. H: 20nsec/div.

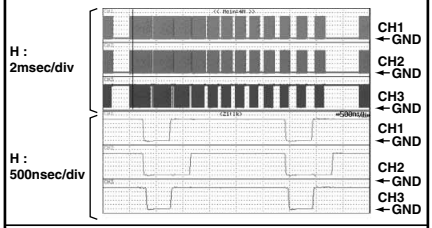


⑦ K1308 (VDRB)
R1343 - pin 8 (RDAT_DL0)
V: 2V/div. H: 4msec/div.

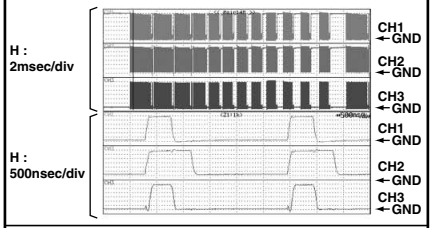


ADR RESONANCE ASSY

① **CH1 : IC6702 - pin 2**
CH2 : IC6701 - pin 2
CH3 : IC6703 - pin 2
V: 1V/div.
(Input : VIDEO, Signal : Color bar)



② **CH1 : D6706 Cathode**
CH2 : D6703 Cathode
CH3 : D6708 Cathode
V: 2V/div.
(Input : VIDEO, Signal : Color bar)



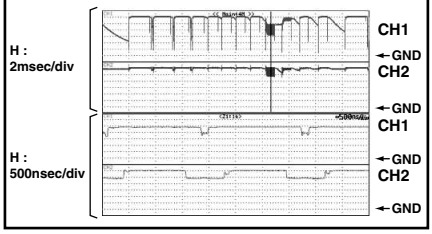
③ **CH1 : Q6706 Drain**
CH2 : Q6710 Soruse
V: 10V/div.
(Input : VIDEO, Signal : Color bar)



④ **CH1 : Q6706 Drain**
CH2 : Q6710 Soruse
V: 10V/div.
(Input : PC, Signal : Color bar)

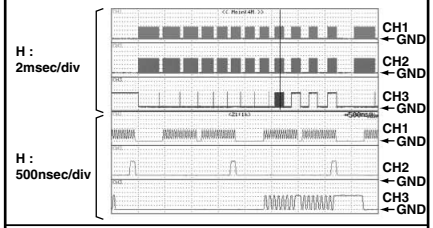


⑤ **CH1 : Q6708 Drain**
CH2 : Q6710 Drain
V: 10V/div.
(Input : VIDEO, Signal : Color bar)

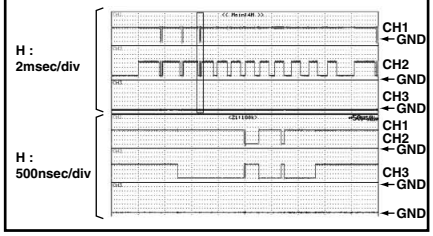


ADR CONNECT A - D ASSY

① **CH1 : IC6501 - pin 8 (CLK)**
CH2 : IC6501 - pin 6 (LE)
CH3 : IC6501 - (DATA)
V: 1V/div.
(Input : VIDEO, Signal : Color bar)

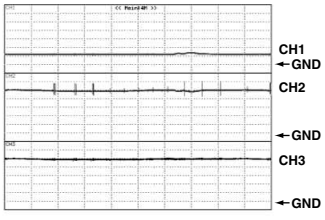


② **CH1 : IC6501 - pin 5 (HBLK)**
CH2 : IC6501 - pin 3 (LBLK)
CH3 : IC6501 - pin 2 (HZ)
V: 1V/div.
(Input : VIDEO, Signal : Color bar)

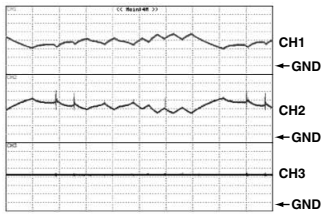


SUB ADDRESS A, B ASSY

① **CH1 : IC8801 - pin 3**
CH2 : IC8801 - pin 7
CH3 : IC8802 - pin 1
V: 2V/div. H: 2msec/div.
(Input : VIDEO, Signal : Color bar)



② **CH1 : IC8801 - pin 3**
CH2 : IC8801 - pin 7
CH3 : IC8802 - pin 1
V: 2V/div. H: 2msec/div.
(Input : VIDEO, Signal : Color bar)



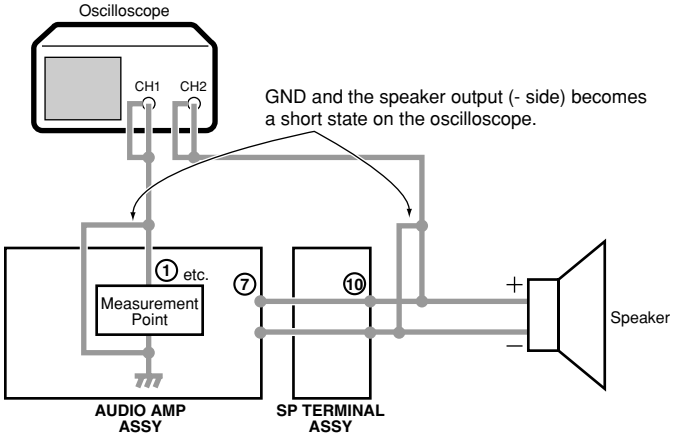
AUDIO SECTION

● Measurement condition

Video Input Signal	: FULL FIELD COLOR-BAR
Audio Input Signal	: 1kHz Sine Carve 0.2Vrms
Volume	: 60 (MAX)
AV Selection	: STANDARD
SRS	: OFF
FOCUS	: OFF

● Caution in the measurement

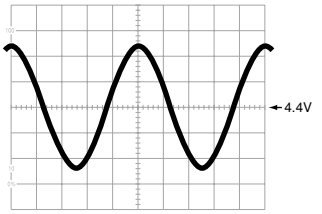
Audio Power Amp. (IC5002: LA4628) on the AUDIO AMP Assy is BTL system, and, as for the power amplifier and the speaker output, ± poles becomes hot for the ground. Therefore be careful not to connect the measuring instrument as the following figures. (Power amplifier may be damaged.)



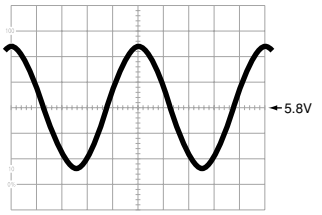
Wrong connection example

AUDIO AMP ASSY

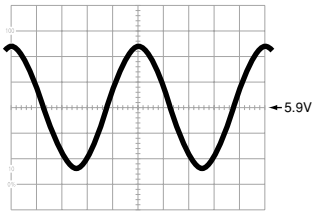
① CN5001 - pin 4 (L) ↔ GND
V: 0.1V/div. H: 0.2msec/div.



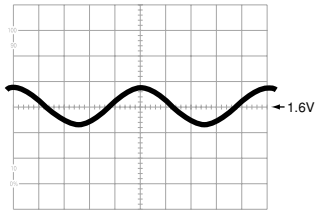
② IC5202 - pin 14 (LOUT) ↔ GND
V: 0.1V/div. H: 0.2msec/div.



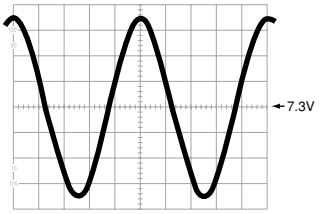
③ IC5201 - pin 19 (FOCUSOUTL) ↔ GND
V: 0.1V/div. H: 0.2msec/div.



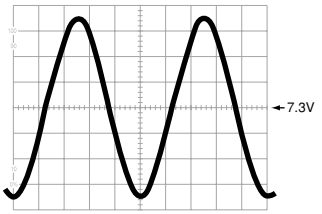
④ IC5002 - pin 1 (IN1) ↔ GND
V: 0.1V/div. H: 0.2msec/div.



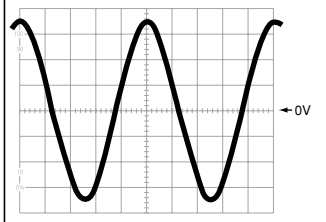
⑤ J5003 - pin 5 (L+) ↔ GND
V: 1V/div. H: 0.2msec/div.



⑥ J5003 - pin 6 (L–) ↔ GND
V: 1V/div. H: 0.2msec/div.

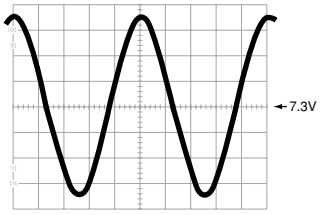


⑦ J5003 - pin 5 (L+) ↔ pin 6 (L–)
V: 2V/div. H: 0.2msec/div.

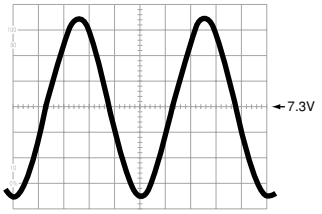


SP TERMINAL ASSY

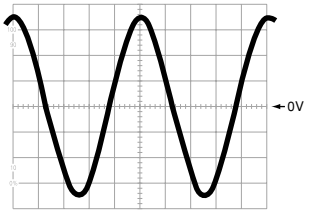
⑧ CN5301 - pin 1 (L+) ↔ GND
V: 1V/div. H: 0.2msec/div.



⑨ CN5301 - pin 2 (L–) ↔ GND
V: 1V/div. H: 0.2msec/div.



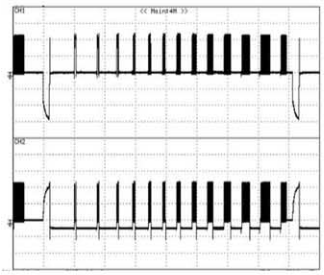
⑩ CN5301 - pin 1 (L+) ↔ pin 2 (L–)
V: 2V/div. H: 0.2msec/div.



Sustain Waveforms

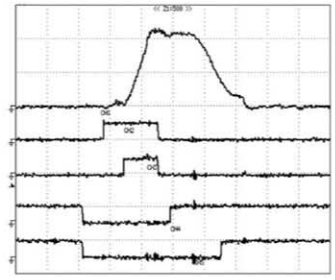
● Sustain Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 2msec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 2msec/div.



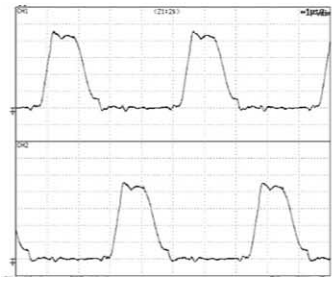
● Sustain Waveform

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 500nsec/div.
ch 2 : K2028 (YSUS_U) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.
ch 3 : K2027 (YSUS_B) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.
ch 4 : K2029 (YSUS_D) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.
ch 5 : K2037 (YSUS_G) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.



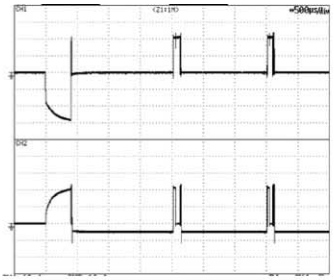
● Sustain Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 50V/div. H: 1µsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 50V/div. H: 1µsec/div.



● Sustain Waveform (1 sub-field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 500µsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 500µsec/div.



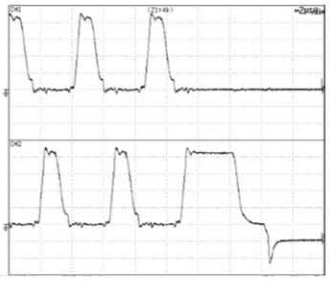
● Sustain Waveform (sustain)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 50V/div. H: 5µsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 50V/div. H: 5µsec/div.



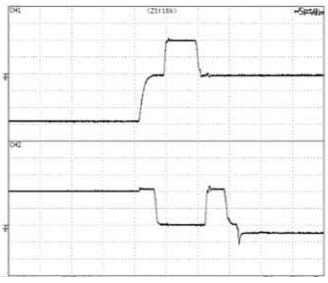
● Sustain Waveform (sustain)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 50V/div. H: 2µsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 50V/div. H: 2µsec/div.



● Sustain Waveform (reset pulse)

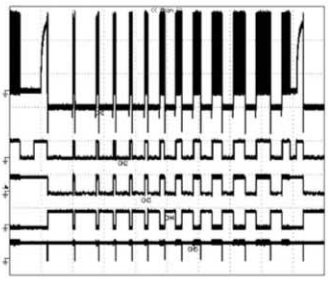
ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 5µsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 5µsec/div.



Drive Pulse Waveforms

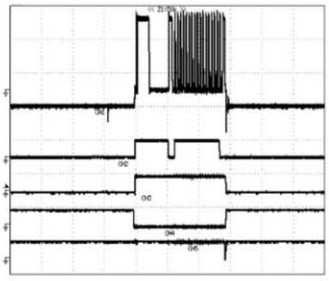
● Y Drive Pulse Control Waveform (1 field)

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 2msec/div.
ch 2 : K2039 (YCP_MSK) - K2024 (DGND)
V: 10V/div. H: 2msec/div.
ch 3 : K2040 (YSUS_MSK) - K2024 (DGND)
V: 10V/div. H: 2msec/div.
ch 4 : K2041 (OFS) - K2024 (DGND)
V: 10V/div. H: 2msec/div.
ch 5 : K2053 (SOFT_D) - K2024 (DGND)
V: 10V/div. H: 2msec/div.



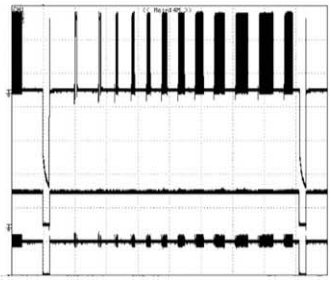
● Y Drive Pulse Control Waveform (1 sub-field)

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 50µsec/div.
ch 2 : K2039 (YCP_MSK) - K2024 (DGND)
V: 10V/div. H: 50µsec/div.
ch 3 : K2040 (YSUS_MSK) - K2024 (DGND)
V: 10V/div. H: 50µsec/div.
ch 4 : K2041 (OFS) - K2024 (DGND)
V: 10V/div. H: 50µsec/div.
ch 5 : K2053 (SOFT_D) - K2024 (DGND)
V: 10V/div. H: 50µsec/div.



● X Drive Pulse Control Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 2msec/div.
ch 2 : K3017 (XCP_MSK) - K3005 (DGND)
V: 10V/div. H: 2msec/div.
ch 3 : K3015 (XSUS_MSK) - K3005 (DGND)
V: 5V/div. H: 2msec/div.



5. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
NSP		SCAN FUKUGO ASSY	AWV1898
NSP		├SCAN (A) ASSY	AWZ6617
NSP		├SCAN (B) ASSY	AWZ6616
NSP		├X CONNECTOR (A) ASSY	AWZ6618
NSP		├X CONNECTOR (B) ASSY	AWZ6619
NSP		├BRIDGE A ASSY	AWZ6620
NSP		├BRIDGE B ASSY	AWZ6621
NSP		├BRIDGE C ASSY	AWZ6622
NSP		├BRIDGE D ASSY	AWZ6623
NSP		├CLAMP A ASSY	AWZ6650
NSP		├CLAMP B ASSY	AWZ6651
NSP		├CLAMP C ASSY	AWZ6652
NSP		└CLAMP D ASSY	AWZ6653
		ADDRESS FUKUGO ASSY	AWV1900
NSP		├ADR CONNECT A ASSY	AWZ6626
NSP		├ADR CONNECT B ASSY	AWZ6627
NSP		├ADR CONNECT C ASSY	AWZ6628
NSP		├ADR CONNECT D ASSY	AWZ6629
		└ADR RESONANCE ASSY	AWZ6691
		X DRIVE ASSY	AWV1901
		HD Y DRIVE ASSY	AWV1925
		├Y DRIVE ASSY	AWZ6645
		├SUB ADDRESS A ASSY	AWZ6689
		└SUB ADDRESS B ASSY	AWZ6690
		DIGITAL VIDEO ASSY	AWV1903
NSP		HD FUKUGO ASSY	AWV1923
		├MR INTERFACE ASSY	AWZ6654
		├LED ASSY	AWZ6655
		├FRONT KEY ASSY	AWZ6656
		├FRONT KEY CONN ASSY	AWZ6657
		├IR (P) ASSY	AWZ6658
		└THERMAL SENSOR ASSY	AWZ6660
NSP		HD AUDIO ASSY	AWV1935
		├AUDIO AMP ASSY	AWZ6687
		└SP TERMINAL ASSY	AWZ6688
		V MID CLAMP ASSY	AWV1934

SCAN (A) ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
		IC6001-IC6006	SN755860PJ

CAPACITORS

Mark	No.	Description	Part No.
		C6001,C6002,C6011,C6012 (0.1µF/250V)	ACG1088
		C6021,C6022,C6031,C6032 (0.1µF/250V)	ACG1088
		C6041,C6042,C6051,C6052 (0.1µF/250V)	ACG1088
		C6004,C6005,C6009,C6013,C6015	CCSRCH151J50
		C6026,C6027,C6038,C6040,C6044	CCSRCH151J50
		C6048,C6054,C6058,C6059	CCSRCH151J50
		C6007,C6008,C6014,C6019,C6025	CCSRCH181J50
		C6028,C6035,C6039,C6046,C6047	CCSRCH181J50
		C6056,C6057	CCSRCH181J50
		C6003,C6006,C6017,C6018,C6020	CCSRCH390J50
		C6023,C6024,C6029,C6033,C6034	CCSRCH390J50
		C6037,C6043,C6045,C6049,C6053	CCSRCH390J50
		C6055,C6060,C6062-C6066	CCSRCH390J50
		C6010,C6016,C6030,C6036,C6050	CKSRYF104Z16
		C6061	CKSRYF104Z16

RESISTORS

Mark	No.	Description	Part No.
		R6007,R6012,R6021,R6028,R6032	RAB4C221J
		R6040	RAB4C221J
		Other Resistors	RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN6001	15P CONNECTOR	AKP1218
	K6001,K6012,K6018,K6025,K6031	TEST PIN	AKX9002
	K6038,K6044	TEST PIN	AKX9002

SCAN (B) ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
		IC6201-IC6206	SN755860PJ

CAPACITORS

Mark	No.	Description	Part No.
		C6201,C6202,C6212,C6213 (0.1µF/250V)	ACG1088
		C6222,C6223,C6232,C6233 (0.1µF/250V)	ACG1088
		C6242,C6243,C6252,C6253 (0.1µF/250V)	ACG1088

Mark	No.	Description	Part No.
	C6203,C6206,C6210,C6215,C6219		CCSRCH151J50
	C6227,C6229,C6236,C6240,C6244		CCSRCH151J50
	C6246,C6255,C6259,C6260		CCSRCH151J50
	C6208,C6209,C6217,C6218,C6226		CCSRCH181J50
	C6230,C6238,C6239,C6245,C6250		CCSRCH181J50
	C6257,C6258		CCSRCH181J50
	C6204,C6205,C6207,C6214,C6216		CCSRCH390J50
	C6220,C6224,C6225,C6231		CCSRCH390J50
	C6234,C6235,C6237,C6248,C6249		CCSRCH390J50
	C6251,C6254,C6256,C6262-C6266		CCSRCH390J50
	C6211,C6221,C6228,C6241,C6247		CKSRYF104Z16
	C6261		CKSRYF104Z16
RESISTORS			
	R6207,R6209,R6222,R6228,R6232		RAB4C221J
	R6239		RAB4C221J
	Other Resistors		RS1/16S□□□J
OTHERS			
	CN6201	15P CONNECTOR	AKP1218
	K6202,K6212,K6219,K6225,K6231	TEST PIN	AKX9002
	K6239,K6244	TEST PIN	AKX9002

X CONNECTOR (A) ASSY

RESISTORS			
	All Resistors		RS1/16S□□□J

X CONNECTOR (B) ASSY

RESISTORS			
	All Resistors		RS1/16S□□□J

BRIDGE A ASSY

SEMICONDUCTORS			
	D6421,D6422		D1FL20U(S)
CAPACITORS			
	C6421,C6422 (0.1µF/100V)		ACG1098
OTHERS			
	CN6421	PH CONNECTOR	B4B-PH-SM3

BRIDGE B ASSY

SEMICONDUCTORS			
	D6431,D6432		D1FL20U(S)
CAPACITORS			
	C6431,C6432 (0.1µF/100V)		ACG1098
OTHERS			
	CN6431	PH CONNECTOR	B4B-PH-SM3

Mark	No.	Description	Part No.

BRIDGE C ASSY

SEMICONDUCTORS			
	D6441,D6442		D1FL20U(S)
CAPACITORS			
	C6441,C6442 (0.1µF/100V)		ACG1098
OTHERS			
	CN6441	PH CONNECTOR	B4B-PH-SM3

BRIDGE D ASSY

SEMICONDUCTORS			
	D6451,D6452		D1FL20U(S)
CAPACITORS			
	C6451,C6452 (0.1µF/100V)		ACG1098
OTHERS			
	CN6451	PH CONNECTOR	B4B-PH-SM3

CLAMP A ASSY

SEMICONDUCTORS			
	D6461,D6462		D1FL20U(S)
CAPACITORS			
	C6461,C6462 (0.1µF/100V)		ACG1098
OTHERS			
	CN6461	PH CONNECTOR	B4B-PH-SM3

CLAMP B ASSY

SEMICONDUCTORS			
	D6471,D6472		D1FL20U(S)
CAPACITORS			
	C6471,C6472 (0.1µF/100V)		ACG1098
OTHERS			
	CN6471	PH CONNECTOR	B4B-PH-SM3

CLAMP C ASSY

SEMICONDUCTORS			
	D6481,D6482		D1FL20U(S)
CAPACITORS			
	C6481,C6482 (0.1µF/100V)		ACG1098
OTHERS			
	CN6481	PH CONNECTOR	B4B-PH-SM3

Mark	No.	Description	Part No.

CLAMP D ASSY

SEMICONDUCTORS

	D6491,D6492		D1FL20U(S)

CAPACITORS

	C6491,C6492 (0.1µF/100V)		ACG1098

OTHERS

	CN6491	PH CONNECTOR	B4B-PH-SM3

ADR CONNECT A ASSY

SEMICONDUCTORS

	IC6501		TC74VHC541FT
	Q6502		2SC2712
	Q6503		2SK209
	D6501		DA227

COILS

	L6501,L6502 (22µH/0.11A)		ATH1081

CAPACITORS

	C6511-C6520 (330pF/100V)		ACG1094
	C6531,C6533,C6534 (47µF/6.3V)		ACH1341
	C6536-C6538		CCSRCH121J50
	C6506-C6510,C6521-C6525,C6532		CKSRYF104Z16
	C6535		CKSRYF104Z16

RESISTORS

	R6518-R6522,R6524,R6526,R6528		RAB4C100J
	R6530,R6531,R6533-R6537,R6539		RAB4C100J
	R6541,R6543,R6545,R6547		RAB4C100J
	R6516		RAB4C473J
	Other Resistors		RS1/16S□□□J

OTHERS

	CN6501	55P CONNECTOR	AKM1202

ADR CONNECT B ASSY

SEMICONDUCTORS

	IC6601		TC74VHC541FT
	Q6602		2SC2712
	Q6603		2SK209
	D6601		DA227

COILS

	L6601,L6602 (22µH/0.11A)		ATH1081

CAPACITORS

	C6611-C6620 (330pF/100V)		ACG1094
	C6631,C6633,C6634 (47µF/6.3V)		ACH1341
	C6636-C6638		CCSRCH121J50
	C6606-C6610,C6621-C6625,C6632		CKSRYF104Z16
	C6635		CKSRYF104Z16

RESISTORS

	R6618-R6622,R6624,R6626,R6628		RAB4C100J
	R6630,R6631,R6633-R6637,R6639		RAB4C100J
	R6641,R6643,R6645,R6647		RAB4C100J
	R6616		RAB4C473J
	Other Resistors		RS1/16S□□□J

Mark	No.	Description	Part No.

OTHERS

	CN6601	55P CONNECTOR	AKM1202

ADR CONNECT C ASSY

SEMICONDUCTORS

	IC6801		TC74VHC541FT
	Q6802		2SC2712
	Q6803		2SK209
	D6801		DA227

COILS

	L6801,L6802 (22µH/0.11A)		ATH1081

CAPACITORS

	C6811-C6820 (330pF/100V)		ACG1094
	C6831,C6833,C6834 (47µF/6.3V)		ACH1341
	C6836-C6838		CCSRCH121J50
	C6806-C6810,C6821-C6825,C6832		CKSRYF104Z16
	C6835		CKSRYF104Z16

RESISTORS

	R6818-R6822,R6824,R6826,R6828		RAB4C100J
	R6830,R6831,R6833-R6837,R6839		RAB4C100J
	R6841,R6843,R6845,R6847		RAB4C100J
	R6816		RAB4C473J
	Other Resistors		RS1/16S□□□J

OTHERS

	CN6801	55P CONNECTOR	AKM1202

ADR CONNECT D ASSY

SEMICONDUCTORS

	IC6901		TC74VHC541FT
	Q6902		2SC2712
	Q6903		2SK209
	D6901		DA227

COILS

	L6901,L6902 (22µH/0.11A)		ATH1081

CAPACITORS

	C6911-C6920 (330pF/100V)		ACG1094
	C6931,C6933,C6934 (47µF/6.3V)		ACH1341
	C6936-C6938		CCSRCH121J50
	C6906-C6910,C6921-C6925,C6932		CKSRYF104Z16
	C6935		CKSRYF104Z16

RESISTORS

	R6918-R6922,R6924,R6926,R6928		RAB4C100J
	R6930,R6931,R6933-R6937,R6939		RAB4C100J
	R6941,R6943,R6945,R6947		RAB4C100J
	R6916		RAB4C473J
	Other Resistors		RS1/16S□□□J

OTHERS

	CN6901	55P CONNECTOR	AKM1202

Mark	No.	Description	Part No.

ADR RESONANCE ASSY

SEMICONDUCTORS

⚠	IC6704 (1A/50V)		ICP-S1.0
	IC6701-IC6703		TND301S
	Q6704,Q6705,Q6712		2SB1132
	Q6701-Q6703		2SD1664
	Q6710,Q6711		FS30ASJ-2
	Q6706-Q6709		FX20ASJ-2
	D6701,D6703,D6704,D6706		1SS355
	D6709,D6710,D6717,D6718		D1FL20U(S)
	D6711-D6714		SPX-62S
	D6702,D6705,D6716		UDZ15B

COIL

	L6704	CHOKE COIL	ATH1111

CAPACITORS

	C6716,C6718 (1.00F)		ACE1159
	C6720,C6721 (0.01μF/100V)		ACG1101
	C6722 (0.0068F/100V)		ACG1102
	C6703-C6708 (56μF/80V)		ACH1347
	C6702,C6709		CEHV101M16
	C6701		CEHV470M16
	C6710,C6711,C6713		CKSRYF104Z16

RESISTORS

	All Resistors		RS1/16S□□□J

OTHERS

	CN6701	23P CONNECTOR	AKP1221
	CN6702	PH CONNECTOR	B4B-PH-SM3
	CN6703	PH CONNECTOR	B5B-PH-SM3

X DRIVE ASSY

[X LOGIC BLOCK]

SEMICONDUCTORS

	IC3003		PE1012A
	IC3004		TC74ACT540FT
	IC3001,IC3008		TC74ACT541FT

COIL

	L3001		LFEA100J

CAPACITORS

	C3005		CEHAT470M16
	C3001,C3003,C3004,C3006		CKSRYF104Z50

RESISTORS

	R3009-R3012		RAB4C0R0J
	R3001,R3003,R3026,R3029		RAB4C470J
	R3002,R3005,R3030,R3033		RAB4C472J
	Other Resistors		RS1/16S□□□J

OTHERS

	K3001,K3003,K3004,K3008,K3010	TEST PIN	AKX9002
	K3012-K3015,K3017,K3018	TEST PIN	AKX9002
	CN3001	30P CONNECTOR	KF050HA30L

Mark	No.	Description	Part No.

[X SUS BLOCK]

SEMICONDUCTORS

	IC3102		HCPL-M611
	IC3200,IC3201		STK795-460
	IC3101		TC74ACT541FT
	IC3103,IC3104,IC3106,IC3107		TND301S
	IC3110,IC3113		TND301S
	IC3109		UPC78L05T
	Q3117		2SJ181L
	Q3116,Q3119,Q3120		2SJ522
	Q3101		2SK2503
	Q3103-Q3107,Q3109-Q3115		FS16VS-9
	Q3124-Q3127		FS16VS-9
	Q3123		FS2AS-14A
	Q3122,Q3128		FS7VS-14A
	Q3102,Q3118		HN1B04FU
	D3119		1SS184
	D3108,D3124,D3125,D3130,D3133		1SS355
	D3101,D3102,D3117,D3126,D3131		D1FL40
	D3200,D3202,D3203,D3205		D1FL40
	D3207,D3208,D3210-D3215		D1FL40
	D3120,D3127-D3129,D3135,D3136		UDZ15B

COILS

	L3206,L3207	RADIAL LEAD INDUCTOR	ATH1112
	L3201,L3204	CHOKE COIL	ATH1117
	L3202,L3205,L3210,L3211	CHOKE COIL	ATH1118
	L3101		LFEA100J
	L3107,L3108		LFEA101J
	L3103		LFEA470J

CAPACITORS

	C3205,C3206,C3212,C3213 (1.5μF)		ACE1160
	C3225,C3226 (1.5μF)		ACE1160
	C3131,C3139,C3143 (0.1μF/630V)		ACG1092
	C3223,C3224 (100pF/500V)		ACG1100
	C3132 (47μF/350V)		ACH1346
	C3200-C3202,C3207-C3209	(330μF/315V)	ACH1348
	C3214-C3221		CCSRCH331J50
	C3112,C3133,C3203,C3210		CEHAT101M16
	C3102,C3107,C3115,C3204,C3211		CEHAT101M25
	C3101		CEHAT221M25
	C3104,C3106,C3134,C3141		CEHAT470M16
	C3135		CEHAT470M25
	C3103,C3105,C3108,C3109,C3111		CKSRYF104Z50
	C3113,C3114,C3117,C3130,C3140		CKSRYF104Z50
	C3147		CKSRYF104Z50

RESISTORS

	R3183,R3184,R3187 (15Ω)		ACN1156
	R3113,R3114,R3121,R3122,R3126		RAB4C100J
	R3132,R3140,R3141		RAB4C100J
	R3212,R3217,R3230,R3234,R3237		RS1/10S184J
	R3240,R3242,R3245		RS1/10S184J
	R3250-R3253		RS1/16S3300F
	R3134,R3163		RS1/2S100J
	R3103		RS1/2S102J
	R3109		RS1/2S2R2J
	R3102		RS1/2S561J

Mark	No.	Description	Part No.
	R3215,R3216		RS1MMF101J
	R3228,R3229		RS1MMF102J
	R3202,R3203		RS1MMF563J
	R3178,R3179		RS2MMF121J
	VR3200-VR3203 (1kΩ)		ACP1089
	Other Resistors		RS1/16S□□□J

OTHERS

		SPACER	AEH1049
	K3102-K3104	TEST PIN	AKX9002
	KN3105-KN3114	GROUND PLATE	ANK-142
	CN3101	13P PLUG	KM250MA13
	CN3102	3P PLUG	KM250MA3

[X DD CON BLOCK]

SEMICONDUCTORS

	IC3712		AN1431M
	IC3701		MIP161
	IC3702-IC3704		TLP181(GR)
	Q3701		2SC2712
	Q3800		HN1A01FU
	D3710,D3711		1SS355
	D3705,D3706		D1FL20U(S)
	D3702		EC8FS6
	D3708,D3709,D3713		RD110P
	D3703		UDZ18B
	D3707		UDZS5.6B

COIL

	L3701	RADIAL LEAD INDUCTOR	ATH1110

TRANSFORMER

	T3701		ATK1153

CAPACITORS

	C3701 (22μF/315V)		ACH1345
	C3717 (47μF/350V)		ACH1346
	C3704		CEHAT101M16
	C3706,C3711,C3714		CEHAT101M25
	C3712		CEHAT331M16
	C3705		CKSQYF104Z50
	C3703,C3707,C3708,C3710		CKSRYB104K16
	C3715,C3716		CKSRYB104K16

RESISTORS

	R3732		RS1/16S1001F
	R3806		RS1/16S1802F
	R3701-R3704,R3706-R3717		RS1/16S1803F
	R3805		RS1/16S2702F
	R3731		RS1/16S3900F
	R3802		RS1/16S5601F
	R3738,R3739		RS1/2S102J
	R3800,R3801		RS1/2S823J
	VR3701 (1kΩ)		ACP1089
	Other Resistors		RS1/16S□□□J

Mark	No.	Description	Part No.

Y DRIVE ASSY

[Y DRIVE LOGIC BLOCK]

SEMICONDUCTORS

	IC2006		PE1013B
	IC2007		TC74ACT540FT
	IC2001,IC2003-IC2005		TC74ACT541FT
	Q2121		2SK2201
	Q2101,Q2102		HN1C01FU
	D2101		1SS355

COIL

	L2001		LFEA100J

CAPACITORS

	C2101		CEHAT100M50
	C2103		CEHAT1R0M50
	C2003		CEHAT470M16
	C2001,C2004,C2005,C2007,C2008		CKSRYF104Z50
	C2010,C2102,C2104,C2121		CKSRYF104Z50

RESISTORS

	R2015-R2018		RAB4C0R0J
	R2001,R2002,R2005,R2011		RAB4C470J
	R2037,R2038		RAB4C470J
	R2035,R2036,R2039,R2040		RAB4C472J
	Other Resistors		RS1/16S□□□J

OTHERS

	CN2001	50P CONNECTOR	AKM1201
	K2001-K2005,K2009,K2010,K2013	TEST PIN	AKX9002
	K2021,K2027-K2029,K2037	TEST PIN	AKX9002
	K2039-K2041,K2053	TEST PIN	AKX9002
	2101	SENSOR	AXX1057
		SCREW	BMZ20P040FMC
		NUT	NB20FMC

[Y DRIVE SUS BLOCK]

SEMICONDUCTORS

	IC2202,IC2208		HCPL-M611
	IC2206,IC2214		STK795-460
	IC2201		TC74ACT541FT
	IC2203,IC2204,IC2210,IC2212		TND301S
	IC2213,IC2216,IC2217		TND301S
	IC2205,IC2209		UPC78L05T
	Q2203-Q2205		2SJ522
	Q2201		2SK2503
	Q2215-Q2221,Q2226-Q2228		FQB34N20
	Q2232,Q2233		FQB34N20
	Q2210-Q2212		FS16VS-9
	Q2209		HN1B04FU
	D2225		1SS184
	D2202,D2204		1SS226
	D2211		1SS355
	D2201,D2203,D2205,D2208,D2210		D1FL40
	D2212,D2214-D2216,D2221-D2223		D1FL40
	D2226-D2228,D2239,D2243		D1FL40
	D2209		DF20L60
	D2206,D2207		UDZ15B

Mark	No.	Description	Part No.
COILS			
	L2207	RADIAL LEAD INDUCTOR	ATH1110
	L2213,L2214	RADIAL LEAD INDUCTOR	ATH1112
	L2206,L2211	CHOKE COIL	ATH1117
	L2208,L2212,L2215,L2216	CHOKE COIL	ATH1118
	L2210		LFEA100J
	L2203,L2205		LFEA101J
	L2201,L2204		LFEA470J
CAPACITORS			
	C2228,C2230,C2231,C2250-C2252	(1.5μF)	ACE1160
	C2209,C2210 (0.1μF/630V)		ACG1092
	C2233,C2248 (100pF/500V)		ACG1100
	C2211 (47μF/350V)		ACH1346
	C2216,C2217,C2219,C2234-C2236	(330μF/315V)	ACH1348
	C2253-C2260		CCSRCH331J50
	C2221,C2225,C2226,C2246		CEHAT101M16
	C2204,C2227,C2237,C2240,C2247		CEHAT101M25
	C2202		CEHAT221M25
	C2232		CEHAT331M2A
	C2218,C2224,C2229		CEHAT470M16
	C2212,C2214		CEHAT470M25
	C2201,C2203,C2205,C2208,C2213		CKSRYF104Z50
	C2220,C2222,C2223,C2238,C2239		CKSRYF104Z50
	C2241,C2242		CKSRYF104Z50
RESISTORS			
	R2235,R2273,R2291,R2305,R2315		RAB4C100J
	R2317,R2342		RAB4C100J
	R2253,R2256,R2270,R2283,R2332		RS1/10S184J
	R2338,R2354,R2355		RS1/10S184J
	R2358-R2361		RS1/16S3300F
	R2263,R2264		RS1/2S100J
	R2203		RS1/2S102J
	R2209		RS1/2S2R2J
	R2202		RS1/2S561J
	R2278,R2303		RS1MMF101J
	R2233,R2234		RS1MMF102J
	R2274,R2275		RS1MMF221J
	R2298,R2299		RS2MMF4R7J
	R2277		RS3LMFR47J
	R2276		RS3LMFR56J
	VR2201-VR2204 (1kΩ)		ACP1089
	Other Resistors		RS1/16S□□□J
OTHERS			
		SPACER	AEH1049
	K2211,K2214-K2217	TEST PIN	AKX9002
	KN2201-KN2210	GROUND PLATE	ANK-142
	CN2201	15P PLUG	KM250MA15
	CN2202	3P PLUG	KM250MA3

Mark	No.	Description	Part No.
[Y DRIVE SCAN BLOCK]			
SEMICONDUCTORS			
	IC2501,IC2502,IC2505,IC2510		HCPL-M611
	IC2512-IC2514,IC2516,IC2525		HCPL-M611
	IC2503,IC2504,IC2506		TC74ACT540FT
COILS			
	L2501-L2503		LFEA100J
CAPACITORS			
	C2506,C2527		CEHAT220M2D
	C2502		CEHAT221M16
	C2524,C2525		CEHAT470M16
	C2501,C2503-C2505,C2507,C2508		CKSRYF104Z50
	C2513,C2515-C2517,C2519,C2530		CKSRYF104Z50
RESISTORS			
	R2502,R2504		RAB4C101J
	Other Resistors		RS1/16S□□□J
OTHERS			
	CN2501,CN2502	15P CONNECTOR	AKM1200
[Y DRIVE DD-CON BLOCK]			
SEMICONDUCTORS			
	IC2715-IC2717		AN1431M
	IC2709		HCNR201
	IC2708,IC2710,IC2718		M5223AFP
	IC2711		MIP0223SC
	IC2701		MIP161
	IC2704		MIP301
	IC2702,IC2703,IC2705-IC2707		TLP181(GR)
	IC2712-IC2714		TLP181(GR)
	Q2701,Q2703		2SC2712
	Q2704		HN1A01FU
	D2712,D2717,D2718,D2732,D2734		1SS355
	D2736,D2737		1SS355
	D2704,D2706,D2707,D2715,D2726		D1FL20U(S)
	D2728		D1FL20U(S)
	D2702,D2714,D2727		D1FL40
	D2711		D1FS4
	D2725		EC8FS6
	D2733		RD110P
	D2724		U1ZB330
	D2713		U1ZB36
	D2740		UDZ12B
	D2709,D2716		UDZ3.6B
	D2729,D2731		UDZ33B
	D2703,D2710		UDZ36B
	D2720,D2730,D2739		UDZS5.6B
COIL			
	L2701	RADIAL LEAD INDUCTOR	ATH1110
TRANSFORMERS			
	T 2702		ATK1150
	T 2703		ATK1151
	T 2701		ATK1152

Mark	No.	Description	Part No.
CAPACITORS			
	C2701,C2735 (22µF/315V)		ACH1345
	C2706,C2725,C2737		CEHAT101M16
	C2709,C2718,C2720,C2739,C2745		CEHAT101M25
	C2708		CEHAT101M2A
	C2740		CEHAT101M2C
	C2704		CEHAT221M25
	C2715		CEHAT331M16
	C2746		CEHAT331M25
	C2723,C2751		CEHAT470M16
	C2712		CEHAT471M35
	C2711		CKSRYB103K50
	C2705,C2713,C2714,C2719		CKSRYB104K16
	C2721,C2722,C2724,C2727,C2729		CKSRYB104K16
	C2731,C2733,C2736,C2742,C2743		CKSRYB104K16
	C2747-C2749		CKSRYB104K16
	C2728,C2730		CKSRYB471K50
	C2707,C2738		CKSRYF104Z50
RESISTORS			
	R2735,R2791		RS1/16S1000F
	R2780		RS1/16S1103F
	R2715,R2728,R2733		RS1/16S1201F
	R2787		RS1/16S1302F
	R2766		RS1/16S1501F
	R2785		RS1/16S1503F
	R2777,R2786		RS1/16S1802F
	R2776		RS1/16S2702F
	R2705,R2706,R2709,R2710,R2778		RS1/16S3002F
	R2781		RS1/16S3002F
	R2783		RS1/16S4701F
	R2734,R2736		RS1/16S4702F
	R2779		RS1/16S5102F
	R2773		RS1/16S5601F
	R2784		RS1/16S5602F
	R2782		RS1/16S6801F
	R2744-R2746,R2748-R2753		RS1/16S9102F
	R2711,R2716,R2767,R2770		RS1/2S102J
	R2788,R2792		RS1/2S561J
	R2771,R2772		RS1/2S823J
	R2712		RS3LMF272J
	VR2702,VR2703 (1kΩ)		ACP1089
	VR2701 (2.2kΩ)		ACP1090
	Other Resistors		RS1/16S□□□J

SUB ADDRESS A ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC8801,IC8802,IC8804		M5223AFP
	IC8803		TC74VHC74FT
	Q8801,Q8802		2SA1163
	Q8803-Q8805,Q8808		2SC2712
	Q8806		2SK209
	D8801-D8803,D8809		1SS355
	D8806,D8807		DA227
	D8808		UDZ27B
	D8804		UDZS5.1B
COILS			
	L8801	CHOKE COIL (100µH/0.45A)	ATH1074
	L8802,L8803	COIL (22µH/0.11A)	ATH1081
CAPACITORS			
	C8806		CCSRCH101J50
	C8822		CEHV100M16
	C8804		CEHV100M35
	C8801,C8808		CEHV470M16
	C8807		CEVNP2R2M35
	C8802,C8803,C8805,C8809-C8817		CKSRYF104Z16
	C8820,C8821		CKSRYF104Z16
RESISTORS			
	R8806,R8807,R8837,R8838,R8841		RS1/16S1002D
	R8858		RS1/16S1202D
	R8864		RS1/16S1802F
	R8828,R8829,R8846		RS1/16S2202D
	R8826,R8827,R8839,R8840		RS1/16S4701D
	R8833,R8859		RS1/16S4702F
	R8832		RS1/16S5602F
	R8801,R8802		RS1/2S1R5J
	R8803-R8805		RS1/2S2R2J
	Other Resistors		RS1/16S□□□J
OTHERS			
	CN8803	23P CONNECTOR	AKM1205
	CN8801	PH CONNECTOR	S3B-PH-SM3
	CN8802	PH CONNECTOR	S8B-PH-SM3

SUB ADDRESS B ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC8901,IC8902,IC8904		M5223AFP
	IC8903		TC74VHC74FT
	Q8901,Q8902		2SA1163
	Q8903-Q8905,Q8908		2SC2712
	Q8906		2SK209
	D8901-D8903,D8909		1SS355
	D8906,D8907		DA227
	D8908		UDZ27B
	D8904		UDZS5.1B
COILS			
	L8901	CHOKE COIL (100µH/0.45A)	ATH1074
	L8902,L8903	COIL (22µH/0.11A)	ATH1081
CAPACITORS			
	C8906		CCSRCH101J50
	C8922		CEHV100M16
	C8904		CEHV100M35
	C8901,C8908		CEHV470M16
	C8907		CEVNP2R2M35
	C8902,C8903,C8905,C8909-C8917		CKSRYF104Z16
	C8920,C8921		CKSRYF104Z16
RESISTORS			
	R8906,R8907,R8937,R8938,R8941		RS1/16S1002D
	R8958		RS1/16S1202D
	R8964		RS1/16S1802F
	R8928,R8929,R8946		RS1/16S2202D
	R8926,R8927,R8939,R8940		RS1/16S4701D
	R8933,R8959		RS1/16S4702F
	R8932		RS1/16S5602F
	R8901,R8902		RS1/2S1R5J
	R8903-R8905		RS1/2S2R2J
	Other Resistors		RS1/16S□□□J

Mark	No.	Description	Part No.
OTHERS			
	CN8903	23P CONNECTOR	AKM1205
	CN8901	PH CONNECTOR	S3B-PH-SM3
	CN8902	PH CONNECTOR	S8B-PH-SM3

DIGITAL VIDEO ASSY

[INTERFACE BLOCK]

SEMICONDUCTORS			
	IC1001-IC1008		TC74VHC541FT
FILTERS			
	F1001-F1006	EMI FILTER	ATF1194
CAPACITORS			
	C1001-C1008		CKSRYF104Z16
RESISTORS			
	R1044		RAB4C101J
	R1001-R1007,R1036,R1063-R1069		RAB4C103J
	R1008-R1017,R1019,R1020,R1027		RAB4C470J
	R1032,R1034,R1035,R1037,R1038		RAB4C470J
	R1040-R1043,R1048,R1049		RAB4C470J
	R1051-R1054		RAB4C470J
	Other Resistors		RS1/16S□□□J
OTHERS			
	CN1003,CN1004	50P CONNECTOR	AKM1201
	K1001	TEST PIN	AKX9002
	CN1001	PH CONNECTOR	B12B-PH-SM3

[PANEL UCOM BLOCK]

SEMICONDUCTORS			
	IC1101		HD64F2328VF
	IC1103		NC7SZ08P5
	IC1102		PST9228N
	Q1101,Q1103		DTC143EK
	D1101		AEL1171
CAPACITORS			
	C1123,C1124		CCSRCH7R0D50
	C1101		CEV101M4
	C1102,C1109,C1110,C1112-C1116		CKSRYB102K50
	C1129-C1132		CKSRYB102K50
	C1117,C1121		CKSRYB103K50
	C1120		CKSRYB472K50
	C1103-C1108,C1111,C1118,C1119		CKSRYF104Z16
	C1122,C1125-C1128		CKSRYF104Z16
RESISTORS			
	R1104,R1107,R1110,R1113,R1114		RAB4C472J
	R1116,R1121,R1124,R1127,R1129		RAB4C472J
	R1128		RD1/4PU473J
	Other Resistors		RS1/16S□□□J
OTHERS			
	K1101-K1104,K1107,K1108	TEST PIN	AKX9002
	X1101	CERAMIC RESONATOR (25MHz)	ASS1160

Mark	No.	Description	Part No.
[MODULE UCOM BLOCK]			
SEMICONDUCTORS			
	IC1204		24LC04B(I)SN
	IC1208		PST9246N
	IC1202		TC74VHC08FT
	IC1201		TC74VHC21FT
	IC1205		TC74VHC541FT
	IC1203		TC74VHCT541AFT
	IC1206		TC7W126FU
	D1201,D1202		1SS355
CAPACITORS			
	C1213,C1243-C1245		CCSRCH470J50
	C1235,C1236		CCSRCH7R0D50
	C1225,C1232		CEV470M6R3
	C1201-C1203,C1206-C1211		CKSRYB102K50
	C1214-C1216,C1218,C1219		CKSRYB102K50
	C1223,C1224,C1226,C1227,C1229		CKSRYB102K50
	C1237,C1238,C1241,C1242,C1247		CKSRYB102K50
	C1234		CKSRYB103K50
	C1233		CKSRYB472K50
	C1204,C1205,C1212,C1217		CKSRYF104Z16
	C1221,C1222,C1228,C1230,C1231		CKSRYF104Z16
	C1239,C1240,C1246,C1248-C1250		CKSRYF104Z16
RESISTORS			
	R1209,R1214,R1245		RAB4C101J
	R1242		RAB4C103J
	R1207		RAB4C123J
	R1213,R1216		RAB4C473J
	Other Resistors		RS1/16S□□□J
OTHERS			
	X1201	CERAMIC RESONATOR (16MHz)	ASS1159
	CN1203	PH CONNECTOR	B3B-PH-SM3
	CN1201,CN1202	8P PLUG	CKS3130

[DIGITAL BLOCK]

SEMICONDUCTORS			
	IC1802		FS781BZB
	IC1704		NC7SZ08P5
	IC1301,IC1401		PD6358A
	IC1703		PE5064A
	IC1501,IC1502,IC1601,IC1602		TC74VCX541FT
	IC1702,IC1801		TC74VHC541FT
	IC1803		TC74VHC74FT
	IC1701		TC74VHCT541AFT
	D1301-D1305		1SS226
FILTERS			
	F1301-F1304,F1501-F1505	EMI FILTER	ATF1194
	F1601-F1605	EMI FILTER	ATF1194
CAPACITORS			
	C1807		CCSRCH271J50
	C1802		CEV100M16
	C1306,C1322,C1406,C1422,C1711		CEV101M4
	C1806		CEV101M4
	C1504-C1508,C1604-C1608,C1712		CKSRYB102K50

Mark	No.	Description	Part No.
	C1303-C1305,C1307-C1321		CKSRYF104Z16
	C1323-C1336,C1403-C1405		CKSRYF104Z16
	C1407-C1421,C1423-C1436,C1501		CKSRYF104Z16
	C1503,C1601,C1603,C1701-C1710		CKSRYF104Z16
	C1713,C1803-C1805		CKSRYF104Z16
	RESISTORS		
	R1502,R1517,R1606,R1622		RAB4C101J
	R1307,R1310-R1315,R1317,R1318		RAB4C220J
	R1321,R1322,R1326-R1344,R1407		RAB4C220J
	R1410-R1415,R1417,R1418		RAB4C220J
	R1421,R1422,R1426-R1444		RAB4C220J
	R1501,R1514,R1607,R1627,R1701		RAB4C470J
	R1703-R1709,R1712-R1717		RAB4C470J
	R1551,R1552		RS1/2S680J
	Other Resistors		RS1/16S□□□J
	OTHERS		
	CN1701	50P CONNECTOR	AKM1201
	CN1501,CN1502,CN1504,CN1505	55P CONNECTOR	AKM1202
	CN1601,CN1602,CN1604,CN1605	55P CONNECTOR	AKM1202
	K1301,K1302,K1308,K1311-K1314	TEST PIN	AKX9002
	K1316,K1321,K1324,K1326-K1331	TEST PIN	AKX9002
	K1333,K1501,K1502,K1601,K1602	TEST PIN	AKX9002
	K1728,K1729	TEST PIN	AKX9002
	X1801	CRYSTAL RESONATOR (50.000MHz)	ASS1146
	CN1503,CN1603	PH CONNECTOR	B8B-PH-SM3
	CN1301	8P PLUG	CKS3130
	CN1702	30P CONNECTOR	KF050HA30L
	[D-D CONVERTER BLOCK]		
	SEMICONDUCTORS		
	Q1902,Q1905,Q1907		2SC2712
	Q1903		DTC143EK
	Q1901,Q1904,Q1906		HN1C01FU
	D1903-D1906,D1911,D1912		1SS355
	D1908		HZU2.2B
	D1902,D1909		UDZ3.6B
	D1907		UDZS5.1B
	D1901		UDZS6.8B
	CAPACITORS		
	C1904,C1906,C1912		CEV220M16
	C1901-C1903,C1905,C1907-C1911		CKSRYF104Z16
	RESISTORS		
	R1935,R1936		RS1/2S680J
	Other Resistors		RS1/16S□□□J
	OTHERS		
	K1901-K1906	TEST PIN	AKX9002
	1901	DC-DC CONVERTER	AXY1054
	CN1901	PH CONNECTOR	B13B-PH-SM3

Mark	No.	Description	Part No.
	MR INTERFACE ASSY		
	[INTERFACE BLOCK]		
	SEMICONDUCTORS		
	IC4011		CXA1875AM
	IC4007,IC4010		M5223AFP
	IC4005		M62320FP
	IC4001		PQ05DZ51
	IC4002-IC4004		PQ20VZ1U
	IC4013		PST9228N
	IC4008,IC4009		TC74HC00AF
	IC4012		TC74HC4066AF
	IC4006		TC74VHCT541AFT
	Q4003,Q4004,Q4010		2SA1162
	Q4007,Q4009,Q4013,Q4017,Q4018		2SC2712
	Q4012,Q4016,Q4019-Q4022		DTC124EK
	Q4014		HN1A01FU
	Q4008		HN1B04FU
	Q4001,Q4002,Q4005,Q4006		HN1C01FU
	Q4011,Q4015		RN2902
	D4007,D4008		1SS184
	D4002-D4006		1SS355
	SWITCHES		
	S4001,S4004		ASH1010
	CAPACITORS		
	C4023,C4036,C4037		CCSRCH102J50
	C4025,C4032		CCSRCH220J50
	C4029,C4030,C4053,C4054		CCSRCH471J50
	C4001,C4004,C4005,C4008,C4010		CEAT101M10
	C4012,C4013,C4016,C4041,C4042		CEAT101M10
	C4034,C4038,C4050,C4056		CKSRYB105K6R3
	C4043		CKSRYB474K10
	C4027,C4028,C4033,C4051		CKSRYF103Z50
	C4002,C4003,C4006,C4007		CKSRYF104Z16
	C4014,C4015,C4017-C4019,C4024		CKSRYF104Z16
	C4026,C4031,C4035,C4039,C4040		CKSRYF104Z16
	C4044-C4047,C4049,C4052,C4055		CKSRYF104Z16
	RESISTORS		
	R4019,R4035,R4054,R4066		RAB4C101J
	R4056		RAB4C471J
	R4007,R4014,R4015,R4117		RS1/16S1001F
	R4106		RS1/16S1002F
	R4107		RS1/16S1502F
	R4098		RS1/16S2201F
	R4078		RS1/16S2202F
	R4074,R4094		RS1/16S3301F
	R4075		RS1/16S4701F
	R4057		RS1/16S5601F
	R4124		RS1/16S5602F
	R4004,R4005,R4115,R4116		RS1/16S8200F
	R4093		RS1/16S8201F
	R4006		RS2MMF2R2J
	Other Resistors		RS1/16S□□□J
	OTHERS		
	CN4004,CN4005	50P CONNECTOR	AKM1180
	CN4002	20P SOCKET	AKP1194
	CN4003	24P DVI SOCKET	AKP1216
	CN4006,CN4009	3P PH CONNECTOR	B3B-PH-SM3

Mark	No.	Description	Part No.
	CN4007	7P PH CONNECTOR	B7B-PH-SM3
	CN4008	8P PLUG	CKS3130

[TMDS RECEIVER BLOCK]

SEMICONDUCTORS

IC4201		24LC01B
IC4203		24LC128(I)SN
IC4202		24LC32A
IC4205		PST9228N
IC4204		SII861CM208
Q4209,Q4212		2SA1162
Q4205,Q4206,Q4213		DTA124EK
Q4203,Q4204,Q4207,Q4208		DTC124EK
Q4210,Q4211,Q4214		DTC124EK
Q4201,Q4202		HN1C01FU
D4201		1SS184
D4203,D4204		1SS226
D4205-D4209		1SS355
D4202		RD6.8MB

FILTERS

F4201,F4203-F4205	EMI FILTER	ATF1194

CAPACITORS

C4208,C4210,C4215,C4222,C4230	CCSRCH331J50
C4255,C4257	CCSRCH331J50
C4262	CCSRCH471J50
C4206,C4207,C4212,C4214,C4217	CCSRCH820J50
C4219,C4220,C4224,C4227,C4229	CCSRCH820J50
C4231-C4233,C4236,C4241,C4244	CCSRCH820J50
C4248,C4253,C4254,C4258	CCSRCH820J50
C4239,C4242,C4246,C4250	CEAT101M10
C4202,C4237,C4238	CEAT470M10
C4264	CKSRYB103K50
C4265	CKSRYB105K6R3
C4260	CKSRYB472K50
C4263	CKSRYB474K10
C4201,C4203-C4205,C4209,C4211	CKSRYF104Z16
C4213,C4216,C4218,C4221,C4225	CKSRYF104Z16
C4234,C4235,C4240,C4243,C4245	CKSRYF104Z16
C4247,C4251,C4252,C4256,C4259	CKSRYF104Z16
C4261	CKSRYF104Z16
C4223,C4226,C4228,C4249	CKSRYF105Z10
C4266-C4270	CKSRYF105Z10

RESISTORS

R4213-R4217,R4245,R4247	RAB4C181J
R4253-R4255	RAB4C181J
R4241	RAB4C680J
R4250	RS1/16S5100D
Other Resistors	RS1/16S□□□J

OTHERS

K4201-K4207	TEST PIN	AKX9002
X4201	CRYSTAL RESONATOR (16.000MHz)	ASS1163

Mark	No.	Description	Part No.

[AUDIO BLOCK]

SEMICONDUCTORS

Q4403	2SA1162
Q4401,Q4402	2SC2712
D4401-D4404	1SS355

CAPACITORS

C4408,C4417	CEANP100M50
C4403	CEAT101M10
C4407	CEAT101M25
C4402	CEAT220M50
C4425,C4426	CEAT470M25
C4410	CKSRYF104Z16

RESISTORS

All Resistors	RS1/16S□□□J

OTHERS

CN4403	7P PH CONNECTOR	B7B-PH-SM3
CN4404	8P PH CONNECTOR	B8B-PH-SM3

LED ASSY

SEMICONDUCTOR

D4751	AEL1170

OTHERS

CN4751	3P PH CONNECTOR	S3B-PH-SM3

FRONT KEY ASSY

SWITCHES

S4801-S4806	ASG1088

CAPACITORS

C4801-C4803	CKSRYF104Z16

RESISTORS

All Resistors	RS1/16S□□□J

OTHERS

CN4801	6P FFC CONNECTOR	AKM1208

FRONT KEY CONN ASSY

SEMICONDUCTORS

D4851,D4852	1SS226

OTHERS

CN4851	6P FFC CONNECTOR	AKM1208
CN4852	4P PH CONNECTOR	B4B-PH-SM3

IR (P) ASSY

SEMICONDUCTORS

Q4901	2SC2712
D4901	1SS355

Mark	No.	Description	Part No.
CAPACITORS			
	C4901		CEV470M6R3
	C4902		CKSRYB103K50
	C4903		CKSRYB472K50
	C4904		CKSRYF104Z16
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	4901	REMOTE RECEIVER UNIT	GP1UM26RK

THERMAL SENSOR ASSY

SEMICONDUCTORS			
	IC4702		LM50CIM3
	IC4701		M5223AFP
CAPACITORS			
	C4705		CEV470M6R3
	C4704		CKSRYB103K50
	C4701		CKSRYF104Z16
	C4702,C4703		CKSRYF105Z10
RESISTORS			
	R4706,R4708		RS1/16S3001F
	Other Resistors		RS1/16S□□□J

AUDIO AMP ASSY

SEMICONDUCTORS			
	IC5202		CXA2021S
	IC5002		LA4628
	IC5201		NJM2193L
	IC5001		PQ12RD1B
	Q5002,Q5005		2SA1048
	Q5009,Q5012,Q5013		2SC2458
COIL			
	L5001	FERRITE CORE	ATX1037
CAPACITORS			
	C5203,C5227		CCCCH221J50
	C5213,C5226		CEHANP220M25
	C5232,C5233,C5235		CEHAT100M50
	C5015,C5029,C5033,C5201,C5206		CEHAT101M25
	C5242		CEHAT221M25
	C5032,C5034		CEHAT2R2M50
	C5044,C5050,C5051		CEHAT330M25
	C5005		CEHAT331M16
	C5238		CEHAT470M16
	C5002		CEHAT471M16
	C5013		CEHAT472M25
	C5208,C5211,C5212,C5218		CEHAT4R7M50
	C5222,C5223,C5234		CEHAT4R7M50
	C5045		CEHATR47M50
	C5014,C5204,C5217,C5220,C5228		CFTLA103J50
	C5237		CFTLA103J50
	C5035,C5046,C5053,C5056,C5216		CFTLA104J50
	C5221,C5239		CFTLA104J50
	C5214,C5230		CFTLA224J50
	C5225		CFTLA333J50
	C5219,C5236		CFTLA473J50
	C5003,C5006,C5016,C5042,C5207		CKCYB103K50
	C5210		CKCYB103K50
	C5043,C5052,C5205,C5229		CQMA122J50
	C5224		CQMA222J50
	C5215,C5231		CQMA392J50
RESISTORS			
	R5053,R5054,R5075,R5076		RD1/2MMF2R2J
	R5001		RD1/2MMF3R9J
	Other Resistors		RD1/4PU□□□J
OTHERS			
	J5003	6P HOUSING WIRE	ADX2729
	J5002	8P HOUSING WIRE	ADX2731
	5006	FERRITE CORE HOLDER	AEC1818
	KN5001	GROUND PLATE	ANK-142
	5001,5002,5004,5005	SCREW	VBB30P100FNI

SP TERMINAL ASSY

COILS			
⚠	L5301,L5352	LINE FILTER	ATF1206
CAPACITORS			
⚠	C5301,C5305,C5351,C5355		CCCCH221J50
⚠	C5302,C5352		CKCYB332K50
⚠	C5303,C5353		CKCYF473Z50
RESISTORS			
⚠	R5301,R5302,R5351,R5352		RD1/2MMF100J
OTHERS			
	CN5301	4P SPEAKER TERMINAL	AKE1058

V MID CLAMP ASSY

SEMICONDUCTORS			
	Q9003,Q9004		2SA1162
	Q9005,Q9006		2SB950A
	Q9001,Q9002		2SC2712
	D9001-D9008		1SS355
	D9009,D9010		D1FL20U(S)
	D9011,D9012		UDZ27B
CAPACITORS			
	C9001,C9002,C9005,C9006 (0.01μF/100V)		ACG1101
	C9003,C9004		CKSRYF104Z16
RESISTORS			
	R9006		RS1/16S1002D
	R9007-R9010		RS1/16S2202D
	R9005		RS1/16S6801D
	R9011-R9014		RT10PZ680K
	Other Resistors		RS1/16S□□□J
OTHERS			
	9001	HEAT SINK L	ANH1602
	CN9001,CN9002	PH CONNECTOR	B5B-PH-SM3
		SCREW	BBZ30P080FMC

6. ADJUSTMENT

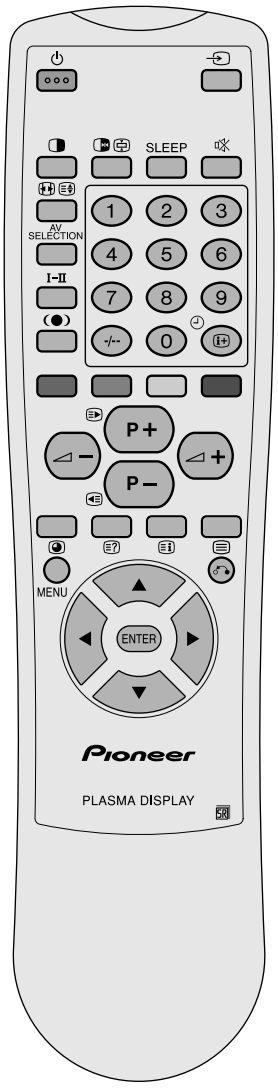
6.1 SERVICE FACTORY MODE

Service factory mode uses an OSD function of the Media Receiver (PDP-R03E or PDP-R03U).
Perform the adjustment and setting in the state that this unit and Media Receiver are connected by the system.
Plasma display cannot use a factory mode by being simple.

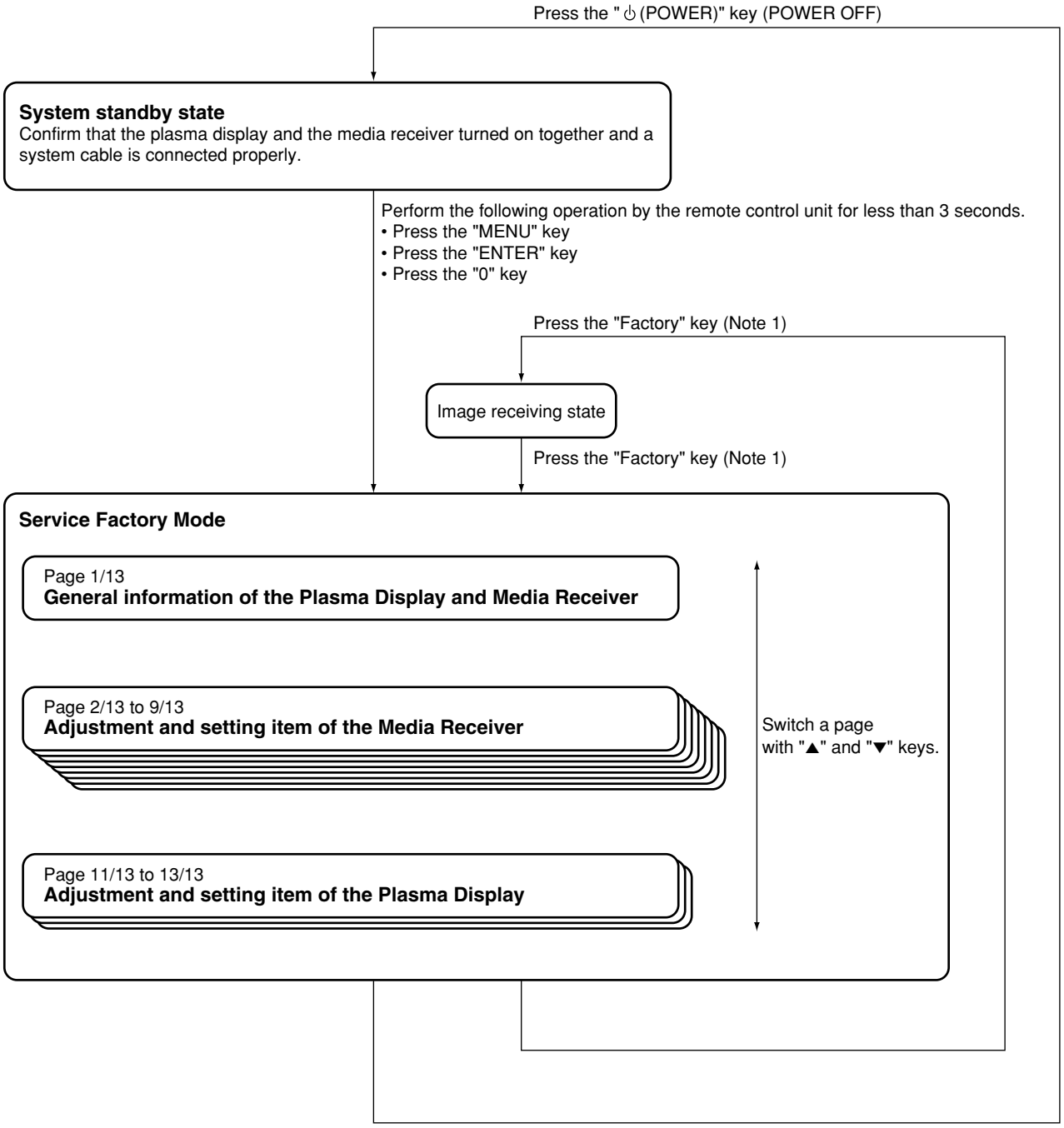
■ Remote Control Unit Operation in The Service Factory Mode

Operate the service factory mode with the remote control unit (AXD1463 or AXD1460) of accessory of the media receiver.
Please perform the adjustment by operating the following keys.

Remote Control Key	Function
P + key	One line moves the selection cursor of the adjustment item up.
P – key	One line moves the selection cursor of the adjustment item down.
VOL ◿ + key	+1 raises a adjustment value
VOL ◿ – key	–1 reduces a adjustment value
▲ key	Perform page down (previous page)
▼ key	Perform page up (next page)
◄ key	–10 reduces a adjustment value
► key	+10 raises a adjustment value



6.1.1 How to Enter the Service Factory Mode

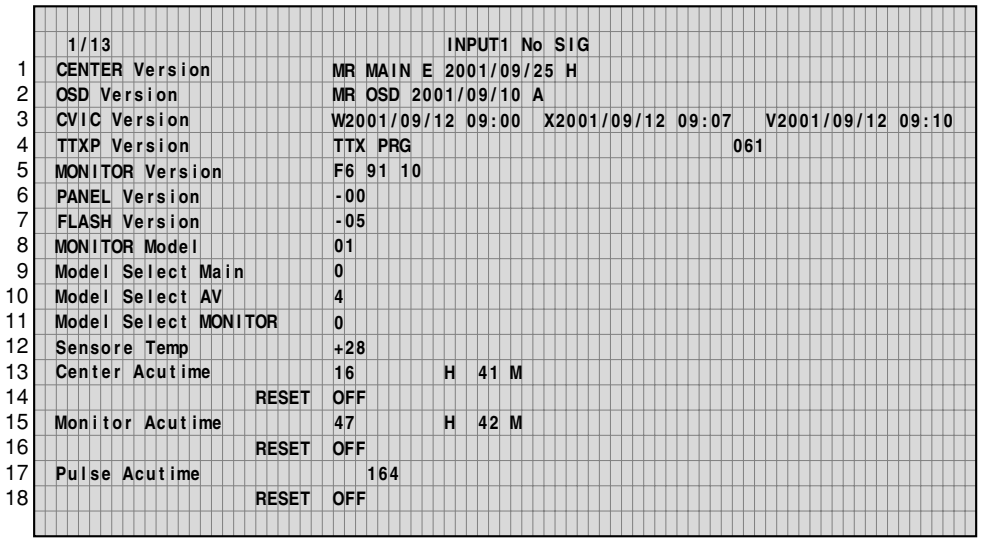


Note 1: When use the adjustment exclusive use remote control unit with a [AA5F] code.

* : Be careful so that there is the case that page constitution is different.

6.1.2 General Information of the Plasma Display and Media Receiver

- **Display example of the first page**

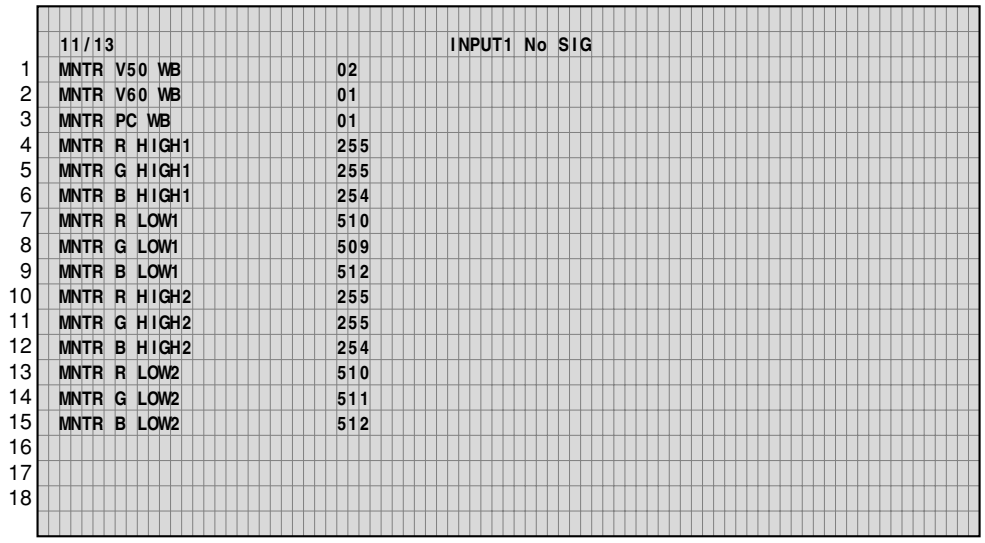


No.	Item	Explanation
1	Main software version information of the media receiver	
2	OSD version information of the media receiver	
3	IP/resize IC control software version information of the media receiver	
4	Text microcomputer software version information of the media receiver	
5	Module microcomputer software version information of the PDP	
6	Panel microcomputer version information of the PDP	Reference
7	Panel flash ROM version information of the PDP	
8	PDP model information	01: PIONEER 50 inches, 02: PIONEER 43 inches, 11: SHARP 50 inches, 12: SHARP 43 inches
9	Media receiver model information	
10	Media receiver model information	
11	PDP destination information	0: All SHARP destinations, Japanese and North America destinations of PIONEER, 3: European and general destinations of PIONEER
12	Temperature information of panel temperature sensor on the PDP	This is internal temperature information. This is not establishment environment temperature.
13	Media receiver accumulation operating time	
14	Media receiver accumulation operating time reset	Turn the display to [ON] by pressing the "VOL +" key, then it becomes [0H] when pressing the "ENTER" key.
15	PDP accumulation operating time	
16	PDP accumulation operating time reset	Turn the display to [ON] by pressing the "VOL +" key, then it becomes [0H] when pressing the "ENTER" key.
17	PDP accumulation pulse number	Real accumulation pulse number becomes "indicated value *10,000,000 pulse".
18	PDP accumulation pulse number reset	Turn the display to [ON] by pressing the "VOL +" key, then it becomes [0] when pressing the "ENTER" key.

* : Be careful so that there is the case that page constitution is different.

6.1.3 Adjustment and Setting Item of the Plasma Display

● **Display example of the eleventh page**

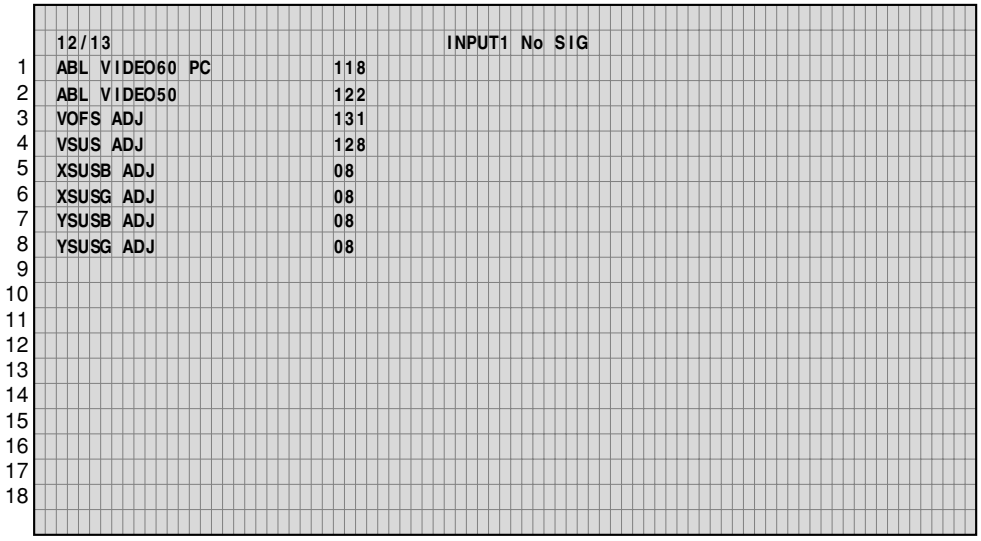


No.	Item	Adjustable Range	Shipping Setting	Storage Place
1	PDP_W/B table selection at VIDEO 50Hz	1 or 2	2	PDP
2	PDP_W/B table selection at VIDEO 60Hz	1 or 2	1	PDP
3	PDP_W/B table selection at PC	1 or 2	1	PDP
4	RED_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
5	GREEN_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
6	BLUE_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
7	RED_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
8	GREEN_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
9	BLUE_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
10	RED_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
11	GREEN_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
12	BLUE_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
13	RED_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP
14	GREEN_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP
15	BLUE_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP

Caution in the PDP W/B (No.4 to 15) adjustment:
Adjustment value is reflected without relation in input signal during adjustment to the actual PDP.
For example, when operate a adjustment value of [MNTR HIGH1] during PAL input, switch to the adjustment value operation of W/B table 1 while displaying PAL in the actual PDP.
This is temporary.
After adjustment, it becomes the W/B table 2 operation in the PAL input after restarted in the normal mode. It becomes an operation of the W/B table 1 adjustment value after adjustment in the NTSC input.
As for the above example, table selection (No. 1 and 2) becomes the shipping setting.

＊ : Be careful so that there is the case that page constitution is different.

● **Display example of the twelfth page**



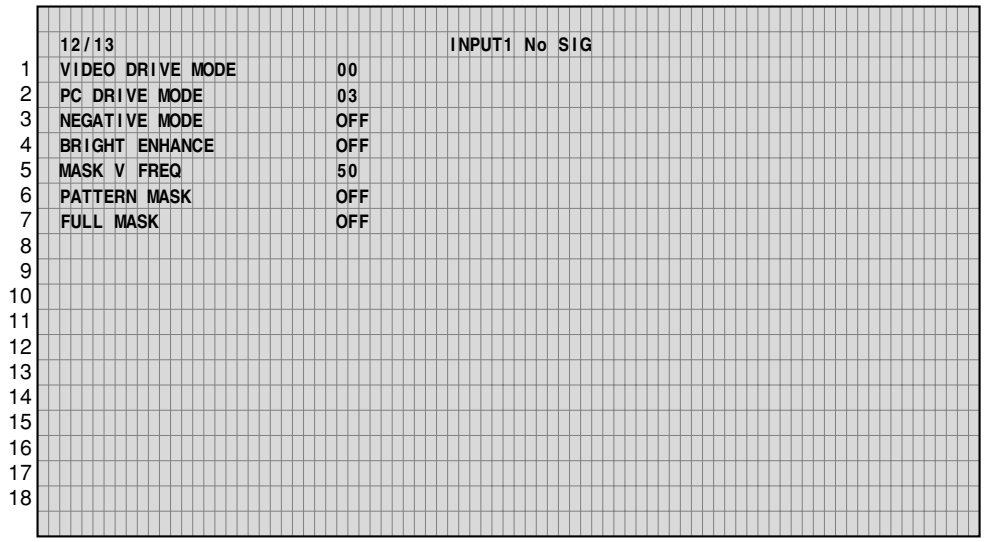
No.	Item	Adjustable Range	Shipping Setting	Storage Place
1	Electric power setting at the PC, VIDEO 60Hz	0 to 255	Factory adjustment value	PDP
2	Electric power setting at VIDEO 50Hz	0 to 255	Factory adjustment value	PDP
3	VOFS voltage setting	0 to 255	Factory adjustment value	PDP
4	VSUS voltage setting	0 to 255	Factory adjustment value	PDP
5	SUS_B timing setting of X drive	0 to 15	Factory adjustment value	PDP
6	SUS_G timing setting of X drive	0 to 15	Factory adjustment value	PDP
7	SUS_B timing setting of Y drive	0 to 15	Factory adjustment value	PDP
8	SUS_G timing setting of Y drive	0 to 15	Factory adjustment value	PDP

Adjustment item of this page is related in damage of the set when mistakes adjustment. When adjustment is needed, be enough careful to adjustment.

Caution in the electric power setting (No. 1 and 2) adjustment:
Adjustment value is reflected without relation in input signal during adjustment to the actual PDP.
For example, when operate a adjustment value of [ABL VIDEO 60 PC] during PAL input, switch to the adjustment value operation of [ABL VIDEO 60 PC] while displaying PAL in the actual PDP. This is temporary.
After adjustment, it becomes the [ABL VIDEO 50] operation in the PAL input after restarted in the normal mode. It becomes an operation of the [ABL VIDEO 60PC] adjustment value after adjustment in the NTSC input.

＊ : Be careful so that there is the case that page constitution is different.

● **Display example of the thirteenth page**



No.	Item	Adjustable Range	Shipping Setting	Storage Place
1	Drive mode selection at VIDEO	0 to 5	0	PDP
2	Drive mode selection at PC	0 to 5	3	PDP
3	Negative positive inversion mode	OFF/ON	OFF	PDP
4	Bright enhance	OFF/ON	OFF	None
5	Refresh rate at mask signal generation	50/60/70	–	None
6	Pattern mask signal generation	OFF/	OFF	PDP
7	Full mask signal generation	OFF/	OFF	PDP

Caution in the mask (generation test signal screen in the PDP inside) signal generation:

- A pattern mask and a full mask can use only either.
  Therefore, turn a full mask to OFF when uses a pattern mask. Also turn a pattern mask to OFF when uses a full mask.
- A pattern mask and a full mask are test signal screens occurring together in the PDP inside. Therefore, in the mask signal generation, it cannot confirm video inputting from OSD and the outside.
  When release mask setting or change of each setting or perform the confirmation of the adjustment or external input signal, perform key operation of the main unit button or the remote control unit.
  When operated something, stop the generation of the mask signal just after that for two seconds. Therefore, modification and adjustment of each setting and confirmation of the external input signal are possible.

* : Be careful so that there is the case that page constitution is different.

6.2 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ SW POWER SUPPLY Module

• When replaced

No adjustment required.

■ DIGITAL VIDEO Assy

• When repaired

No adjustment required.

• When replaced

• Remove IC1204 (24LC04(1) SN-TBB) from the former PC Board to replace, and install it to the new PC Board.

■ MR INTERFACE Assy

• Set slide SW according to page 22.

■ Y DRIVE Assy

• When repaired

1. VOFS/VH/IC5V voltage adjustment
2. Timing adjustment of pulse module

• When replaced

1. SUSB ground timing adjustment
2. Panel white balance adjustment

■ X DRIVE Assy

• When repaired

1. VRN voltage adjustment
2. Timing adjustment of pulse module

• When replaced

1. SUSB ground timing adjustment
2. Panel white balance adjustment

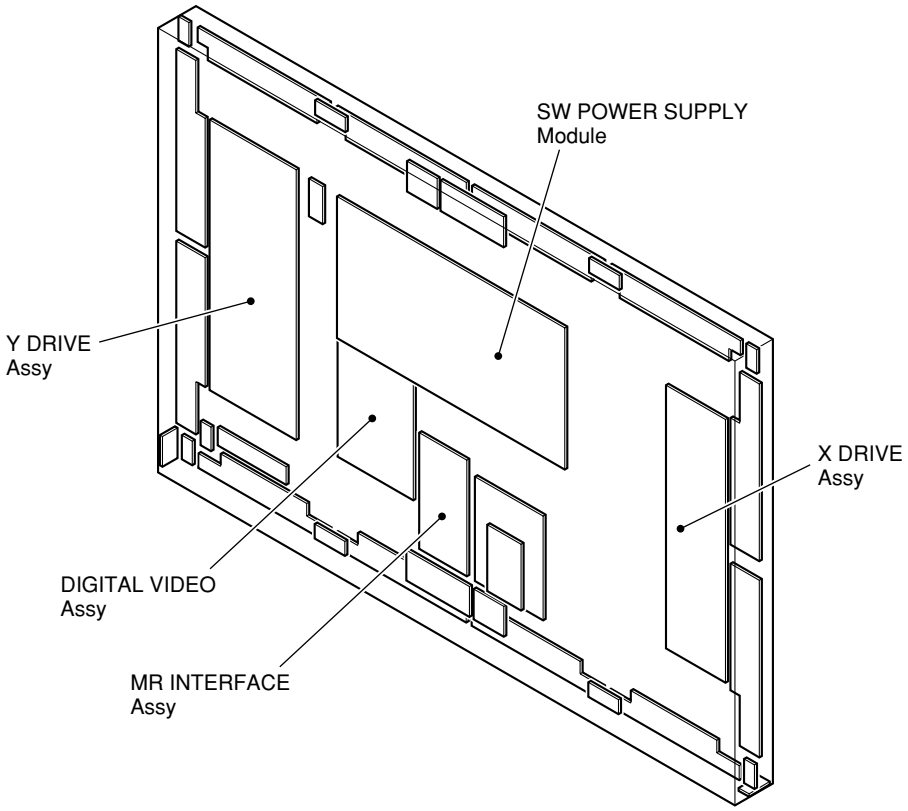


Fig. 1 PC Board Location (rear side view)

6.3 ADJUSTMENT

■ VOFS/VH/IC5V Voltage Adjustment

<table>
<tr><th>Input Signal</th><th>Adjusting Point</th><th>Adjusting Method</th></tr>
<tr><td rowspan="4">White 100%</td><td>VR2701 (VOFS)
(Y DRIVE Assy)</td><td>
VOFS (Offset voltage) adjustment
Method 1
1. Write down a adjustment value of VOFS ADJ in the factory mode.
2. Set this adjustment value to center (128).
3. Adjust VR2701 so that the voltage between K2701 (VOFS) and K2703 (SUS GND) becomes 45V.
4. Return it to the value that wrote down a adjustment value of V-OFFSET in step 1.

Method 2
1. Read the adjustment value of VOFS ADJ in the factory mode.
2. Adjust VR2701 so that the voltage between K2710 (VOFS) and K2703 (SUS GND) becomes following voltage ± 0.5V.

<table>
<tr><th>Input Command</th><th>DAC Output</th><th>Setting Voltage</th><th>Input Command</th><th>DAC Output</th><th>Setting Voltage</th></tr>
<tr><td>VOF000</td><td>0.4</td><td>25</td><td>VOF134</td><td>2.599212598</td><td>45.94488</td></tr>
<tr><td>VOF006</td><td>0.4984375</td><td>25.9375</td><td>VOF141</td><td>2.71496063</td><td>47.04724</td></tr>
<tr><td>VOF013</td><td>0.61328125</td><td>27.03125</td><td>VOF147</td><td>2.814173228</td><td>47.99213</td></tr>
<tr><td>VOF019</td><td>0.71171875</td><td>27.96875</td><td>VOF153</td><td>2.913385827</td><td>48.93701</td></tr>
<tr><td>VOF026</td><td>0.8265625</td><td>29.0625</td><td>VOF160</td><td>3.029133858</td><td>50.03937</td></tr>
<tr><td>VOF032</td><td>0.925</td><td>30</td><td>VOF166</td><td>3.128346457</td><td>50.98425</td></tr>
<tr><td>VOF038</td><td>1.0234375</td><td>30.9375</td><td>VOF172</td><td>3.227559055</td><td>51.92913</td></tr>
<tr><td>VOF045</td><td>1.13828125</td><td>32.03125</td><td>VOF179</td><td>3.343307087</td><td>53.0315</td></tr>
<tr><td>VOF051</td><td>1.23671875</td><td>32.96875</td><td>VOF185</td><td>3.442519685</td><td>53.97638</td></tr>
<tr><td>VOF058</td><td>1.3515625</td><td>34.0625</td><td>VOF191</td><td>3.541732283</td><td>54.92126</td></tr>
<tr><td>VOF064</td><td>1.45</td><td>35</td><td>VOF198</td><td>3.657480315</td><td>56.02362</td></tr>
<tr><td>VOF070</td><td>1.5484375</td><td>35.9375</td><td>VOF204</td><td>3.756692913</td><td>56.9685</td></tr>
<tr><td>VOF077</td><td>1.66328125</td><td>37.03125</td><td>VOF211</td><td>3.872440945</td><td>58.07087</td></tr>
<tr><td>VOF083</td><td>1.76171875</td><td>37.96875</td><td>VOF217</td><td>3.971653543</td><td>59.01575</td></tr>
<tr><td>VOF090</td><td>1.8765625</td><td>39.0625</td><td>VOF223</td><td>4.070866142</td><td>59.96063</td></tr>
<tr><td>VOF096</td><td>1.975</td><td>40</td><td>VOF230</td><td>4.186614173</td><td>61.06299</td></tr>
<tr><td>VOF102</td><td>2.0734375</td><td>40.9375</td><td>VOF236</td><td>4.285826772</td><td>62.00787</td></tr>
<tr><td>VOF109</td><td>2.18828125</td><td>42.03125</td><td>VOF242</td><td>4.38503937</td><td>62.95276</td></tr>
<tr><td>VOF115</td><td>2.28671875</td><td>42.96875</td><td>VOF249</td><td>4.500787402</td><td>64.05512</td></tr>
<tr><td>VOF122</td><td>2.4015625</td><td>44.0625</td><td>VOF255</td><td>4.6</td><td>65</td></tr>
<tr><td>VOF128</td><td>2.5</td><td>45</td><td></td><td></td><td></td></tr>
</table>
The symptom is case of mis-adjustment
If the VOFS Voltage adjustment is not performed properly, dots like blinking luminance points appear. If deviated greatly from the right adjustment point, panel will light white.
</td></tr>
<tr><td>VR2703 (VH)
(Y DRIVE Assy)</td><td>
VH (voltage for scan IC) Adjustment
Adjust so that the voltage between K2716 (VH) and K2720 (PSUS) becomes 103V ± 0.5V. PSUS (=GNDH) is a floating GND and the electric potential is different from that of chassis GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit.

The symptom is case of mis-adjustment
If the VH adjustment is not performed properly, dots like blinking luminance points appear. If deviated greatly from the right adjustment point, panel will light white.
</td></tr>
<tr><td>VR2702 (IC5V)
(Y DRIVE Assy)</td><td>
IC5V Adjustment
Adjust so that the voltage between K2707 (IC5V) and K2720 (PSUS) becomes 5.0V ± 0.1V. PSUS (=GNDH) is a floating GND and the electric potential is different from that of chassis GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit.
</td></tr>
<tr><td colspan="2">Note : Be sure to measure between specified test points.</td></tr>
</table>

■ Sustain Pulse Waveform Adjustment

Input Signal	Adjusting Point	Adjusting Method
White 100%	REF_DIG mode in Factory mode XSUSB ADJ YSUSB ADJ	**X-SUS-B, Y-SUS-B Adjustment** Set to the indicated value with the remote control unit. (Refer to "Timing adjustment of control signal of X and Y Drive Assys".)

■ VRN Voltage Adjustment

Input Signal	Adjusting Point	Adjusting Method
White 100%	VR3701 (VRN) (X DRIVE Assy)	**VRN (minus reset voltage adjustment)** Adjust so that the voltage between K3707 (VRN) and K3702 (SUS-GND) becomes -300V ± 1.0V.

■ Panel White Balance Adjustment

Input Signal	Adjusting Point	Adjusting Method
		Adjust the parameter in the OFFSET-DIGITAL of factory mode as follows; PANEL R-HIGH 〜 PANEL B-LOW In this time, dispay uses the mask (MASK04) of factory mode. Reference : Adjustment values using the Media color-difference meter (A-100)

	MASK Left Side	MASK Right Side
x	295	291
y	306	300

* When perform the various adjustment by RS-232C control, execute a "DM0" command (release the limit of pulse number) beforehand.
  After the adjustment completion, execute a "DM 3" command (Limit of pulse number: 64%, shipping state) by all means.

■ Timing Adjustment of X and Y DRIVE Assys Control Signal

- **Purpose**
  - Pulse module loads in DRIVE Assy as one of heat measures of DRIVE Assy. Adjust the drive timing of the pulse module driving parallel with VR.
  - Pulse module has each peculiar delay time. Readjustment is necessary when replaced the pulse module in the X and Y DRIVE Assys.
- **Adjustment Method**

  CR delay circuit is each inserted on signal path of four control signals (SUS-U, SUS-B, SUS-D, SUS-G) driving the pulse module.
  Quantity of delay can adjust pulse module of one side with VR.
  Adjust VR while measuring a waveform of the pulse module, and match a timing.

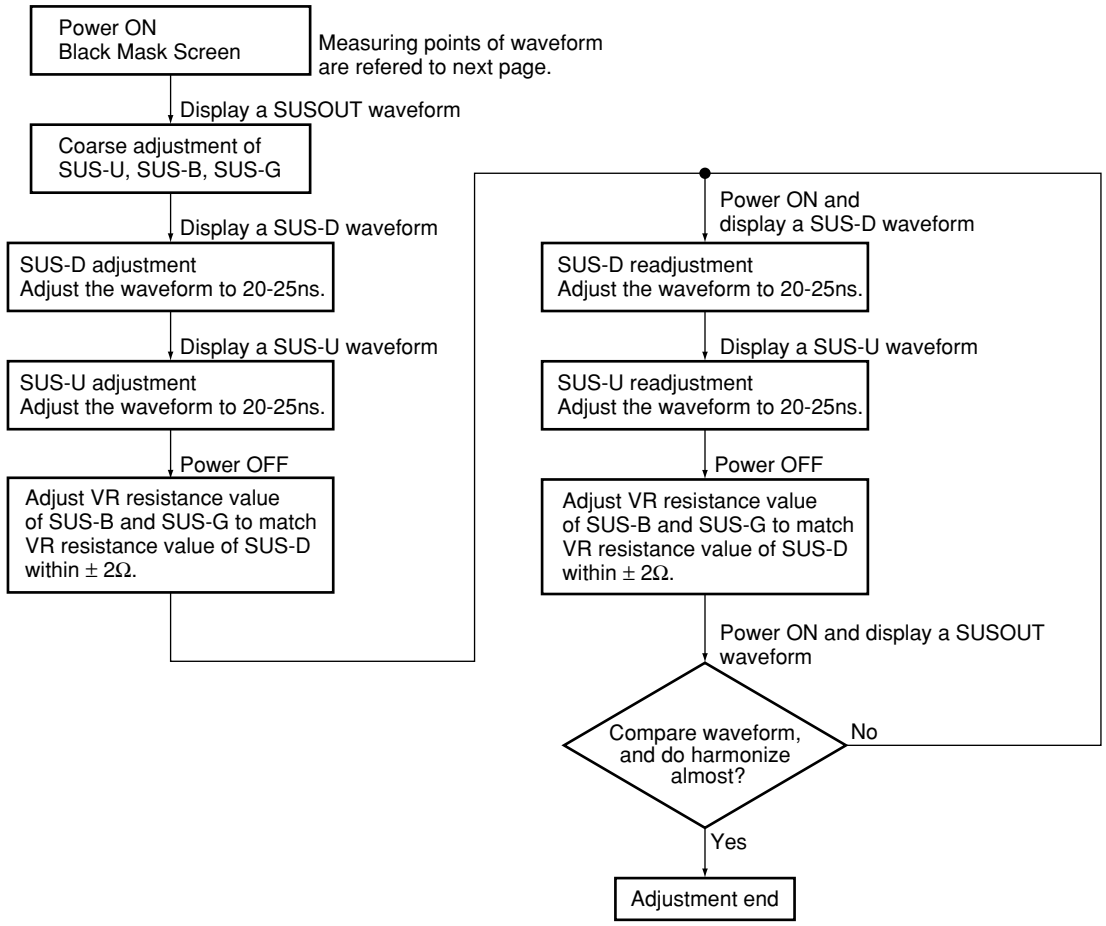
Adjustment VR

	X DRIVE	Y DRIVE
SUS-U	VR3203	VR2204
SUS-D	VR3202	VR2203
SUS-B	VR3201	VR2202
SUS-G	VR3200	VR2201

Test pin for adjustment and measurment

Pulse Module	X DRIVE		Y DRIVE	
	Upper	Lower	Upper	Lower
SUSOUT	K3105	K3106	K2212	K2203
SUS-U	K3200	K3204	K2220	K2224
SUS-D	K3108	K3205	K2207	K2225

- **Adjustment Procedure**



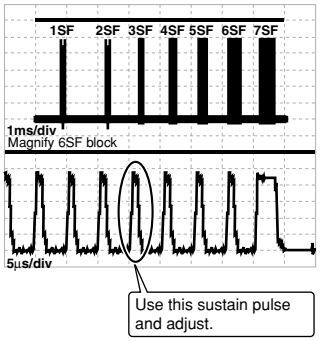
As for this adjustment, adjustment with set state is difficult.
Therefore replace it every Assy when replacing the pulse module.

Measuring Waveform of Pulse Module Timing Adjustment

Timing adjustment of the pulse module control signal adjusts with the sustain pulse of eighth pulse (X DRIVE) and the ninth pulse (Y DRIVE) from the back of 6SF.

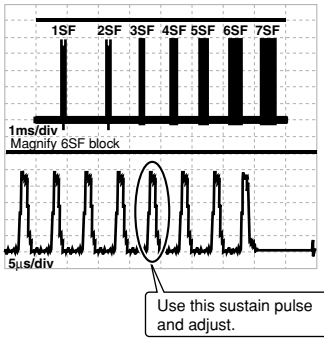
● Measuring point of waveform

Y DRIVE SUSOUT waveform



CH1 : Y SUSOUT Under (K2203), 50V/div
CH2 : Y SUSOUT Upper (K2212), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

X DRIVE SUSOUT waveform



CH1 : X SUSOUT Under (K3106), 50V/div
CH2 : X SUSOUT Upper (K3105), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

- Perform adjustment of waveform with a black mask screen.
- It is easy to adjust when turned field AB offset to OFF (RS-232C command: OCN) in adjustment.

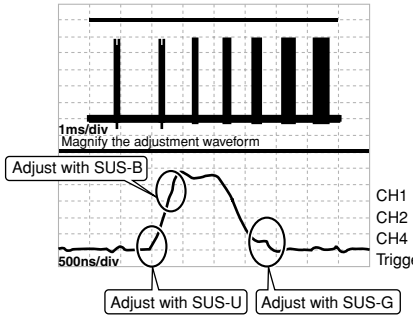
When took waveform be each drive Assy unit, measure it at the fourth sustain pulse from the back except for a large width sustain pulse.
Therefore, when measured both waveform of the X and Y drives together, it becomes the sustain pulse of 8 and 9 pulses from the back.

Note:
- Sampling rate of oscilloscope sets it more than 500MS/s in order to perform ns order adjustment.
- Collecting calibration of probe before adjustment by all means.

- Connect GND of probe measuring waveform to SUSGND terminal by all means.
- Precise waveform is not displayed, and an adjustment gap may occur that does not collect GND properly.

● Waveform coarse adjustment

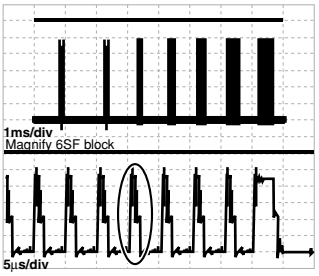
Measure the SUSOUT waveform



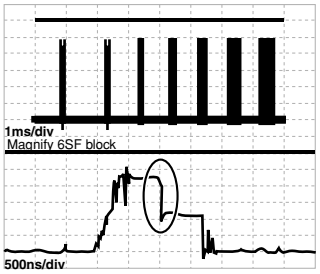
CH1 : Y SUSOUT Under (K2203), 50V/div
CH2 : Y SUSOUT Upper (K2212), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

When there is a gap with waveform of CH1 / CH2 of the part which enclosed in the following circle, adjust required VR to overlap the waveform.

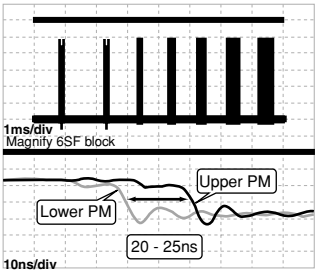
● SUS-D Adjustment (Y DRIVE)



Magnification



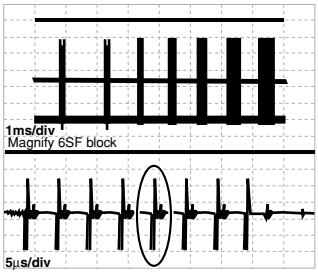
Magnification



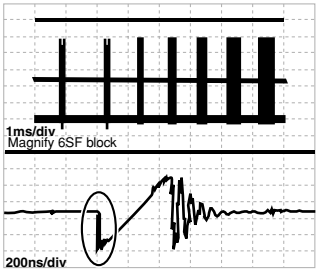
CH1 : Y SUS-D Under (K2225), 50V/div
CH2 : Y SUS-D Upper (K2207), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

Caution:
Not absolutely mistaking upper and lower of waveform.

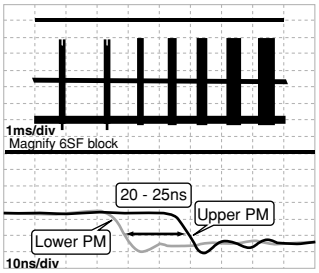
● SUS-U Adjustment (Y DRIVE)



Magnification



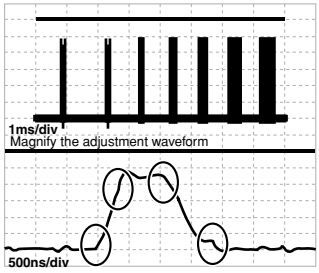
Magnification



CH1 : Y SUS-U Under (K2224), 50V/div
CH2 : Y SUS-U Upper (K2220), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

● Waveform Confirmation in Adjustment completion

Measure the SUSOUT waveform



CH1 : Y SUSOUT Under (K2203), 50V/div
CH2 : Y SUSOUT Upper (K2212), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

Confirm it to waveform of CH1 / CH2 of the part which enclosed in the following circle whether there is not a large gap.
(A gap of the quantity that shifts 20nS and adjusted remains.)

When adjust in the power supply ON state, change so that the quantity of gap that adjusted by temperature-rise of the pulse module becomes small.
Therefore, perform high power OFF (RS-232C command: DRF) except measurement time of waveform when adjusts, and adjustment error by temperature-rise does not occur.

■ SUS-B Ground Timing Adjustment

It is necessary to readjust this adjustment when replaced the X or Y DRIVE Assy and the pulse module.

- **Measurement point and method**

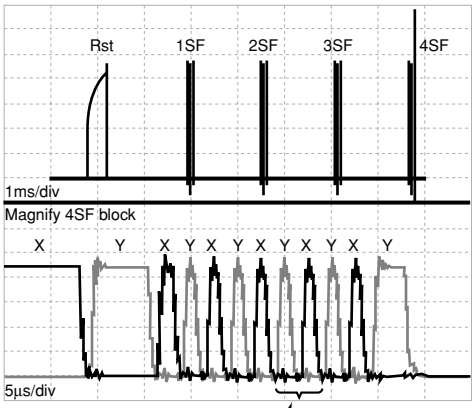
Measurement point of waveform of X and Y DRIVE Assy in timing adjustment is test pin of SUSOUT of the pulse module of bottom of the main unit.
X DRIVE Assy : K3106 Y DRIVE Assy : K2203
Measurement screen : White mask

The measurement is easy to perform when turns field AB alternation to OFF. (RS-232C command: OCN)

Measure a sustain pulse of the fourth pulse (X DRIVE) and the fifth pulse (Y DRIVE) from the back of the fourth FS, and adjust. In the start section of this sustain pulse, waveform has inflection point with the timing when SUS-B becomes ON. Adjust so that the voltage of this inflection point is the nearest to 150V and do not become less than 150V.
Adjustment parameter
X DRIVE: XSUSB (RS-232C command : XSB)
Y DRIVE: YSUSB (RS-232C command : YSB)

Note:
• Connect GND of probe measuring waveform to SUSGND terminal by all means.
• Precise waveform is not displayed, and an adjustment gap may occur that does not collect GND properly.

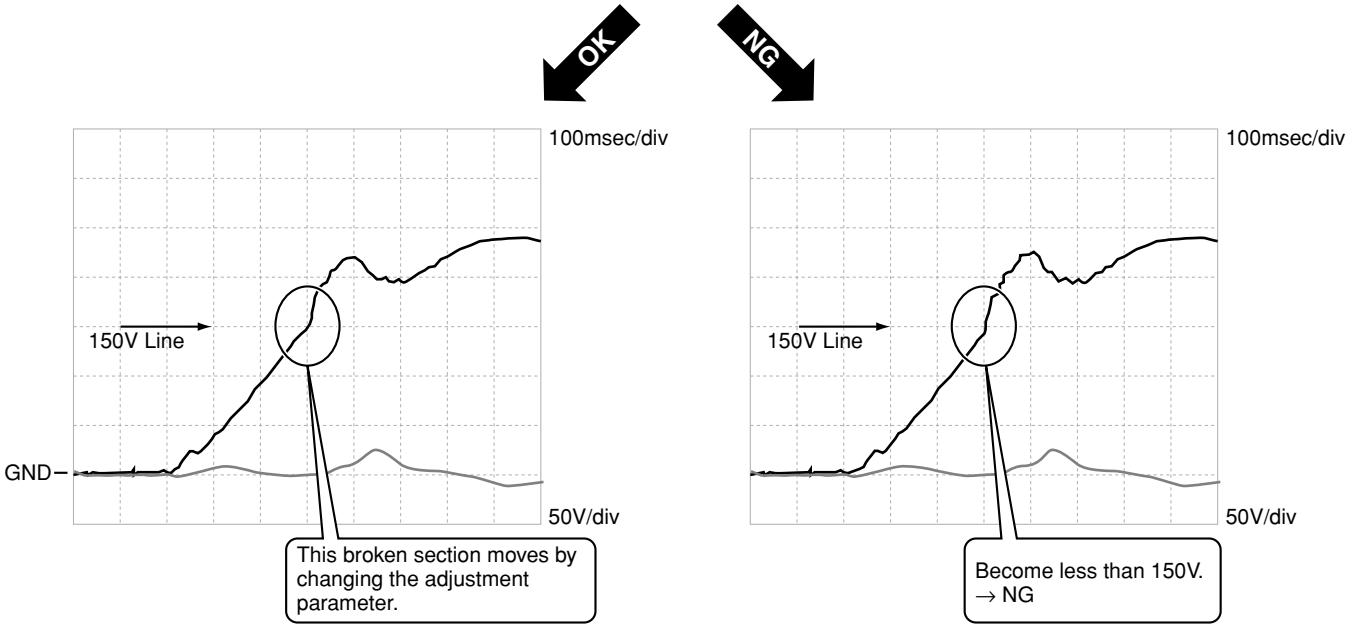
- **Waveform in the measurement**



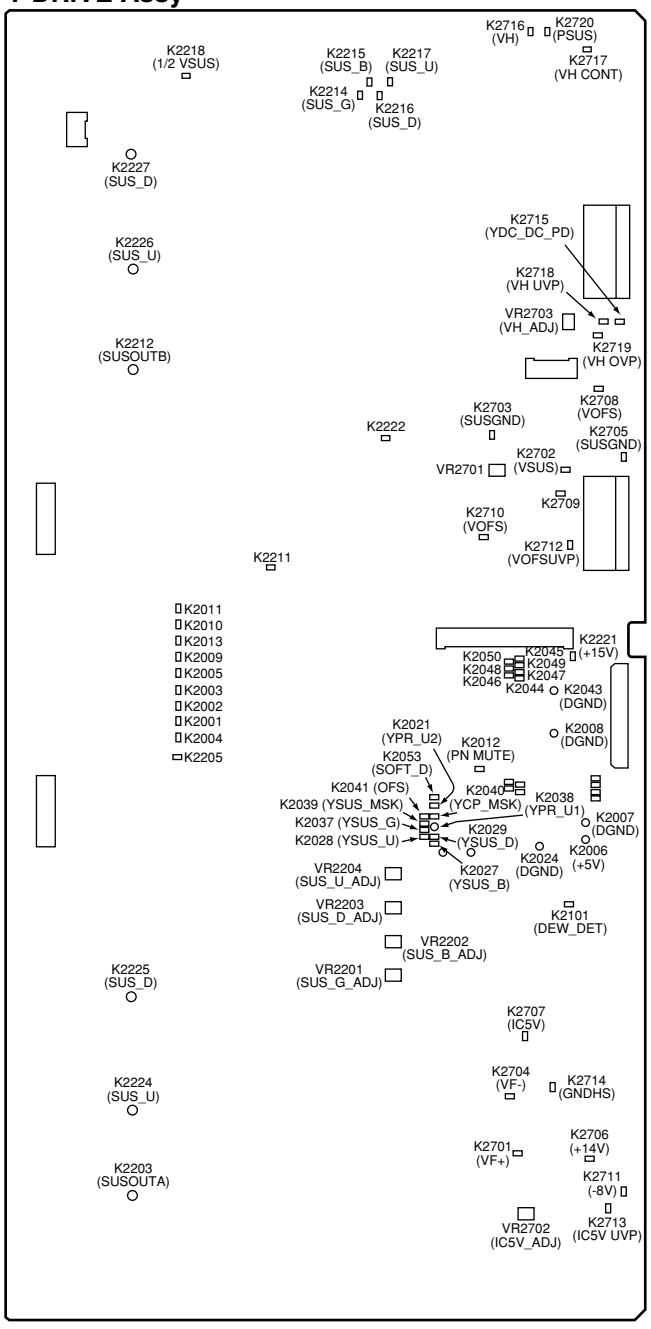
CH1 : Y SUSOUT (K2203), 50V/div
CH2 : X SUSOUT (K3106), 50V/div
CH4 : YPR-U1 (K2038)- Trigger, 5V/div
Trigger : 2msec delay

Measure a waveform of this section and adjust.

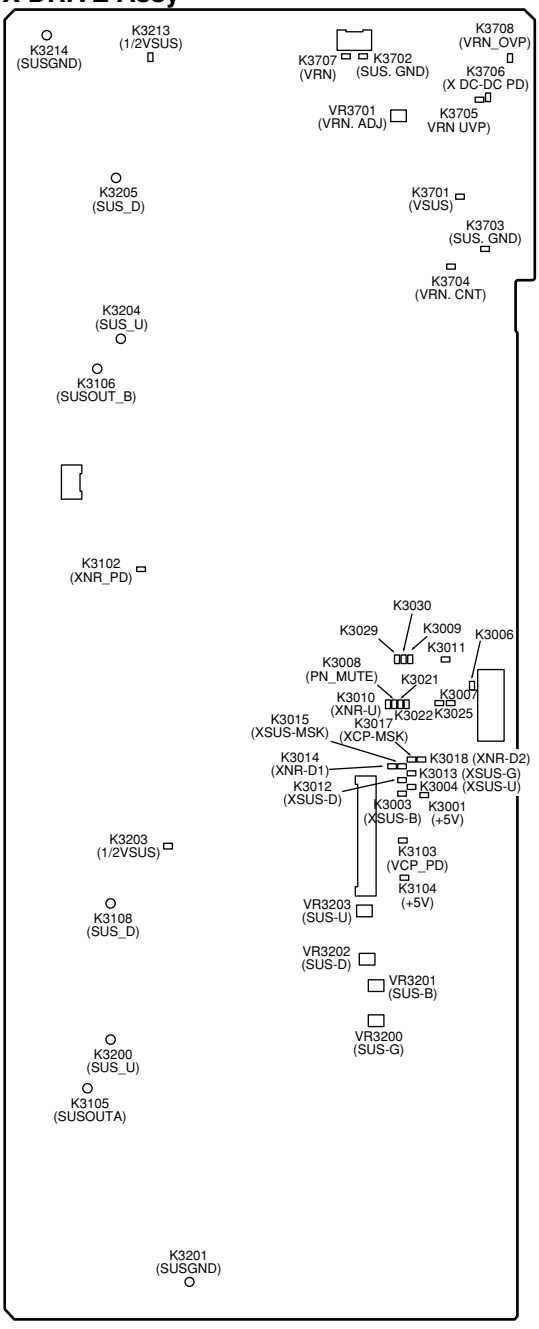
Magnify the fourth pulse sustain pulse (XSUSOUT waveform) from the back of the above waveform.



Y DRIVE Assy



X DRIVE Assy



Adjusting Points

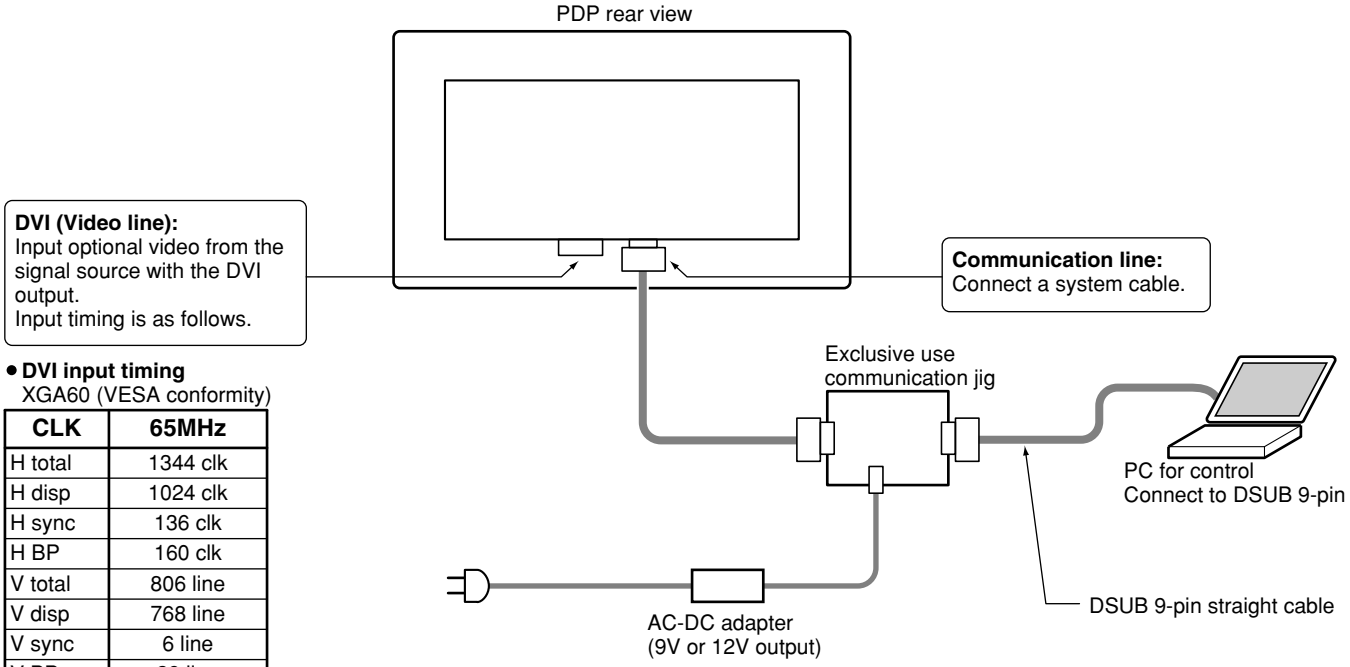
6.4 COMMAND

6.4.1 RS-232C Command

As for PDP-503P system, the 232C control of the panel control item is possible by a single state.
However, the following exclusive use communication jig is necessary.

* Be careful so that can not use a DSUB 9-pin in the rear panel of the media receiver.

■ Connection



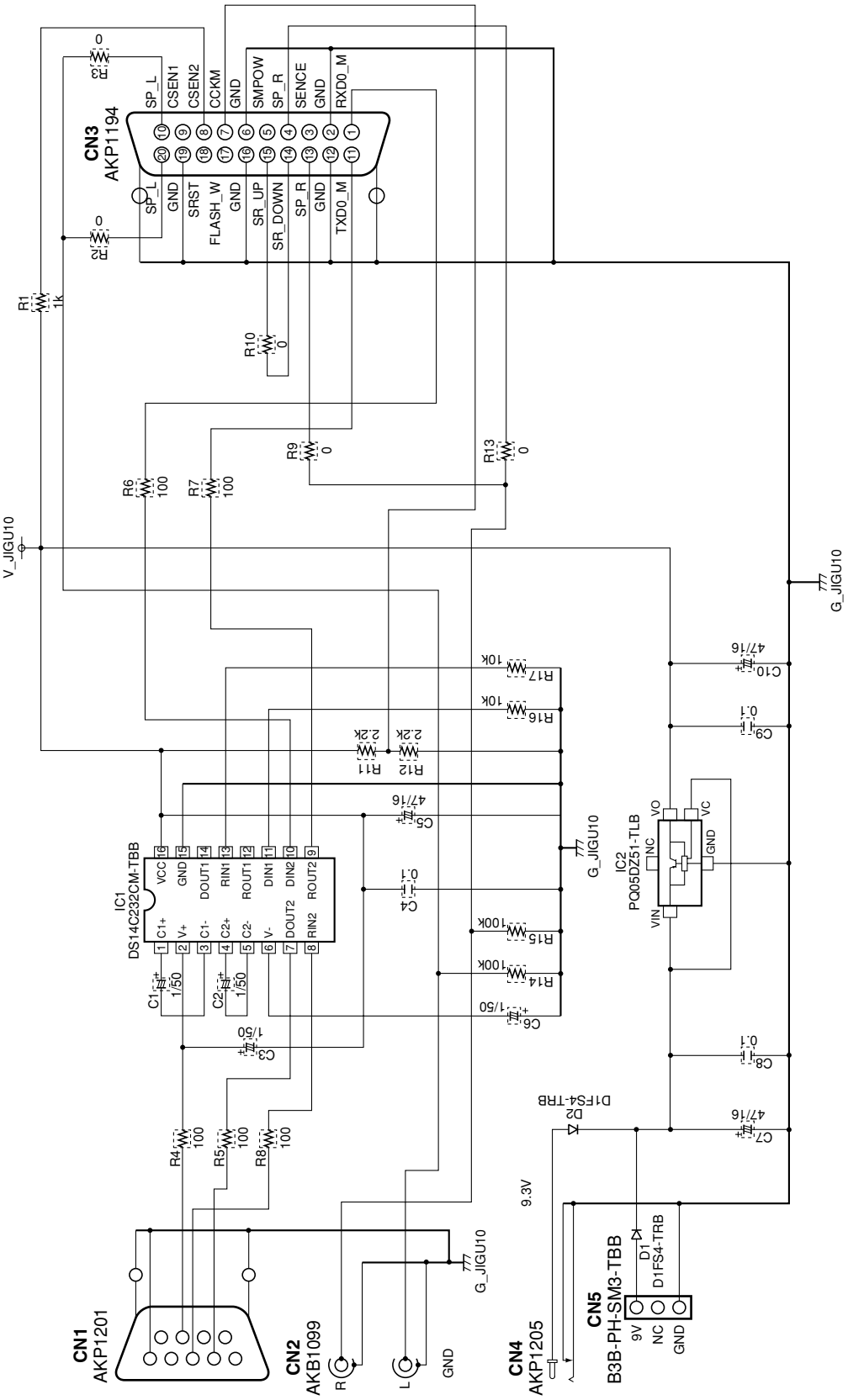
● **DVI input timing**
XGA60 (VESA conformity)

CLK	65MHz
H total	1344 clk
H disp	1024 clk
H sync	136 clk
H BP	160 clk
V total	806 line
V disp	768 line
V sync	6 line
V BP	29 line
fH	48.363 kHz
fV	60.004 Hz

■ Communication baudrate

38400 bps is fixed.

Jig Schematic Diagram



RS-232C Command

Command	Name	Function	Direct Validity	UP/DOWN Validity	Lower Limit	Upper Limit
AB0	ABL REFERENCE MODE	Set the ABL to reference value				
AB1	ABL OFFSET MODE 1	Set the ABL to offset value 1				
AB2	ABL OFFSET MODE 2	Set the ABL to offset value 2				
AB3	ABL OFFSET MODE 3	Set the ABL to offset value 3				
ABL	ABL ADJUST	Adjustment of electric power upper limit	O	O	000	255
AMN	AUDIO MUTE OFF	Mute off request of speaker volume				
AMY	AUDIO MUTE ON	Mute request of speaker volume				
DRF	DRIVE OFF	Drive OFF				
DRN	DRIVE ON	Drive ON				
DW0	DOWN 0	Down the adjustment value with 10				
DWF	DOWN FULL	Minimize the adjustment value				
DWn	DOWN n	Down the adjustment value with n				
EWN	EEPROM WRITE NO	Complete the plug & play EEPROM writing mode				
EWY	EEPROM WRITE YES	Start the plug & play EEPROM writing mode				
F50	FREE RUN 50VIDEO	Display the mask screen with 50Hz (video) sequence				
F60	FREE RUN 60VIDEO	Display the mask screen with 60Hz (video) sequence				
F61	FREE RUN 60PC	Display the mask screen with 60Hz (PC) sequence				
F70	FREE RUN 70PC	Display the mask screen with 70Hz (PC) sequence				
GAJ	GET ADJUST	Acquire the various adjustment value of the display				
GPW	GET PANEL W/B	Acquire the W/B adjustment value of the panel				
GS1	GET STATUS 1	Acquire the version information				
HMS	HOUR METER SET	Set hour meter to optional time				
M00	MASK 00	Mask mode OFF				
M01	MASK 01	Pattern 1 (Lamp)				
M02	MASK 02	Pattern 2 (Color bar)				
M03	MASK 03	Pattern 3 (Slanting line)				
M04	MASK 04	Pattern 4 (W/B measurement)				
M05	MASK 05	Pattern 5 (W/B adjustment)				
M06	MASK 06	Pattern 6 (W/B peak measurement)				
M07	MASK 07	Pattern 7 (Peak measurement)				
M08	MASK 08	Pattern 8 (Reservation)				
M09	MASK 09	Pattern 9 (SCAN IC protection test)				
M10	MASK 10	Pattern 10 (SCAN IC protection test)				
M11	MASK 11	Pattern 11 (reservation)				
M12	MASK 12	Pattern 12 (reservation)				
M13	MASK 13	Pattern 13 (reservation)				
M14	MASK 14	Pattern 14 (reservation)				
M51	MASK 51	Full mask (white)				
M52	MASK 52	Full mask (cyan 274)				
M53	MASK 53	Full mask (magenta 1023)				
M54	MASK 54	Full mask (flesh color)				
M55	MASK 55	Full mask (cyan 1023)				
M56	MASK 56	Full mask (light purple)				
M57	MASK 57	Full mask (sky blue)				
M58	MASK 58	Full mask (red)				
M59	MASK 59	Full mask (green)				
M60	MASK 60	Full mask (blue)				
M61	MASK 61	Full mask (black)				
M62	MASK 62	Full mask (red 779)				
M63	MASK 63	Full mask (cyan 218)				
M64	MASK 64	Full mask (cyan 444)				
M65	MASK 65	Full mask (flesh color 43)				
M66	MASK 66	Full mask (red 620)				
M67	MASK 67	Full mask (magenta 98)				
M68	MASK 68	Full mask (sky blue 1_43)				
M69	MASK 69	Full mask (sky blue 2_43)				
M70	MASK 70	Full mask (light purple 43)				

Command	Name	Function	Direct Validity	UP/DOWN Validity	Lower Limit	Upper Limit
M71	MASK 71	Full mask (yellow)				
M72	MASK 72	Full mask (blue 916)				
M73	MASK 73	Full mask (reservation)				
M74	MASK 74	Full mask (reservation)				
MMN	MIRROR MODE NO	Mirror mode OFF (normal display)				
MMX	MIRROR MODE X	Right and left reversing display				
MMY	MIRROR MODE Y	Top and bottom reversing display				
MMZ	MIRROR MODE XY	Top and bottom right and left reversing display				
MTN	PANEL MUTE NO	Release panel mute				
MTY	PANEL MUTE YES	Panel mute				
NMN	NEGATIVE MODE NO	Negative positive inversion mode OFF				
NMY	NEGATIVE MODE YES	Negative positive inversion mode ON				
PBH	PANEL BLUE HIGH	BLUE HIGH LIGHT adjustment	O	O	000	255
PBL	PANEL BLUE LOW	BLUE LOW LIGHT adjustment	O	O	000	999
PGH	PANEL GREEN HIGH	GREEN HIGH LIGHT adjustment	O	O	000	255
PGL	PANEL GREEN LOW	GREEN LOW LIGHT adjustment	O	O	000	999
PHN	PANEL HIGHT-LIGHT NO	Release the W/B highlight maximum mode of the panel				
PHY	PANEL HIGHT-LIGHT YES	Set the W/B highlight of the panel to maximum				
PLN	BRIGHT ENHANCE NO	Center brightness correction enhance OFF				
PLY	BRIGHT ENHANCE YES	Center brightness correction enhance ON				
PMS	PULSE METER SET	Optional setting of the pulse meter				
POF	POWER OFF	Standby request				
PON	POWER ON	Power ON request				
PRH	PANEL RED HIGH	RED HIGH LIGHT adjustment	O	O	000	255
PRL	PANEL RED LOW	RED LOW LIGHT adjustment	O	O	000	999
PCN	PC MODE NO	At the 60Hz input: VIDEO sequence selection				
PCY	PC MODE YES	At the 60Hz input: PC sequence selection				
PT0	PANEL COLOR TEMP 0	Set each temperature mode to 0 (REF)				
PT1	PANEL COLOR TEMP 1	Set each temperature mode to 1 (OFS1)				
PT2	PANEL COLOR TEMP 2	Set each temperature mode to 2 (OFS2)				
UP0	UP 0	Maximize the adjustment value				
UPF	UP FULL	Maximize the adjustment value				
UPn	UP n	Rise the adjustment value with n				
VOF	VOFFSET ADJUST	Vofs adjustment	O	O	000	255
VOL	VOLUME	Volume	O	O	000	060
VSU	VSUS ADJUST	Vsus adjustment	O	O	000	255
XSB	XSUS B	X-SUS-B pulse adjustment	O	O	000	015
XSG	XSUS G	X-SUS-G pulse adjustment	O	O	000	015
YSB	YSUS B	Y-SUS-B pulse adjustment	O	O	000	015
YSG	YSUS G	Y-SUS-G pulse adjustment	O	O	000	015

6.4.2 GET Command

● Command Description

Command	Function
GAJ	Output data of an electronic VR adjustment value and a drive system adjustment value
GPW	Output data to be related to white balance adjustment of the panel
GS1	Output data such as version information, hour meter and pulse meter

GAJ: Output data of an electron VR adjustment value and a drive system adjustment value

• Output it according to transmission order and size of the table below.

Order	Data Contents		Size	Remarks
1	Setting mode of electric power upper limit value		3 byte	AB* (*: 0 to 3)
2	Electric power upper limit value (ABL)	(Reference data)	3 byte	
3		(Offset data)	3 byte	(Note 1)
4	Vsus adjustment value	(Reference data)	3 byte	
5	Vofs adjustment value	(Reference data)	3 byte	
6	V-SUS-B adjustment value	(Reference data)	3 byte	
7	V-SUS-G adjustment value	(Reference data)	3 byte	
8	Y-SUS-B adjustment value	(Reference data)	3 byte	
9	Y-SUS-G adjustment value	(Reference data)	3 byte	

(Note 1) : When performed in reference mode selection, offset data outputs the same value as the reference data.
(Note 2) : Checksum of 2 bytes is added at the end, but ignore it.

GPW (Get Panel White balance): Output data to be related to white balance adjustment of panel

• Output it according to transmission order and size of the table below.

Order	Data Contents		Size	Remarks
1	Panel color temperature mode		3 byte	PT* (*: 0 to 3)
2	Gain of W/B adjustment value Red	(Reference data)	3 byte	
3		(Offset data)	3 byte	(Note 1)
4	Gain of W/B adjustment value Green	(Reference data)	3 byte	
5		(Offset data)	3 byte	(Note 1)
6	Gain of W/B adjustment value Blue	(Reference data)	3 byte	
7		(Offset data)	3 byte	(Note 1)
8	Offset of W/B adjustment value Red	(Reference data)	3 byte	
9		(Offset data)	3 byte	(Note 1)
10	Offset of W/B adjustment value Green	(Reference data)	3 byte	
11		(Offset data)	3 byte	(Note 1)
12	Offset of W/B adjustment value Blue	(Reference data)	3 byte	
13		(Offset data)	3 byte	(Note 1)

(Note 1) : When performed in reference mode selection, offset data outputs the same value as the reference data.
(Note 2) : Checksum of 2 bytes is added at the end, but ignore it.

GS1: Output data such as version information, hour meter and pulse meter

• Output it according to transmission order and size of the table below.

Order	Data Contents	Size	Remarks
1	Display information	3 byte	See below
2	Module microcomputer model number	4 byte	5691 or F691
3	Module microcomputer version	3 byte	
4	Panel microcomputer version	3 byte	
5	Panel /FLASH ROM version	3 byte	
6	Hour meter (hour)	5 byte	Unit: H (time)
7	Pulse meter	7 byte	Unit: 0.01G (10,000,000)
8	Main microcomputer model number	4 byte	5692 or F692
9	Main microcomputer version	3 byte	
10	Wide microcomputer version	3 byte	
11	Wide /FLASH ROM version	3 byte	

(Note) : Checksum of 2 bytes is added at the end, but ignore it.

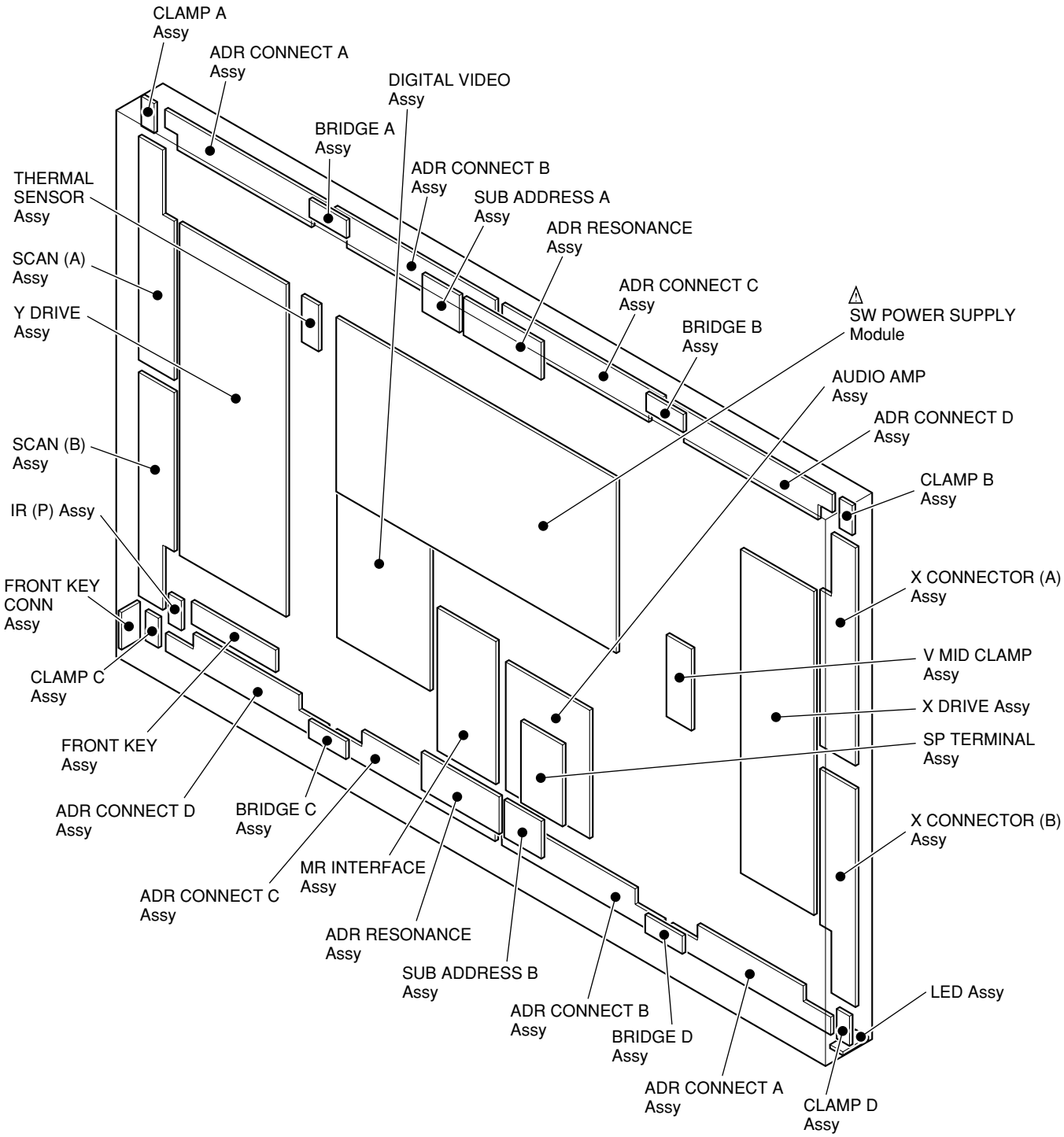
■ Display Information

Data	Model
MX5	PDP-503MX (initial value)
MX4	PDP-433MX
MD5	Module 50 inches
MD4	Module 43 inches
HD5	PDP-503HD
HD4	PDP-433HD

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PCB LOCATION



● Rear View

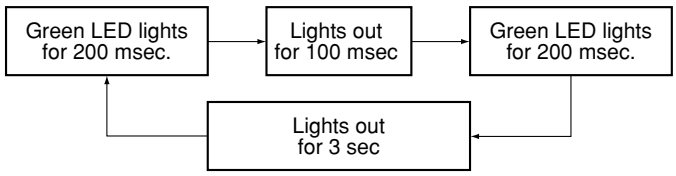
7.1.2 SHUT DOWN/POWER DOWN DIAGNOSIS BY LED DISPLAY

When internal circuit abnormality and other operation abnormality occurred from this unit, self-diagnose display function by STANDBY/ON (LED) indicator is loaded.
Each NG point by LED blinking and a PD (power down) point are as follows.

● Shut Down

• Operations : When a microcomputer detected abnormality, turn the power supply to OFF.
• LED display : Green blinks

Examples: LED blinks in the DIGITAL-IIC communication NG



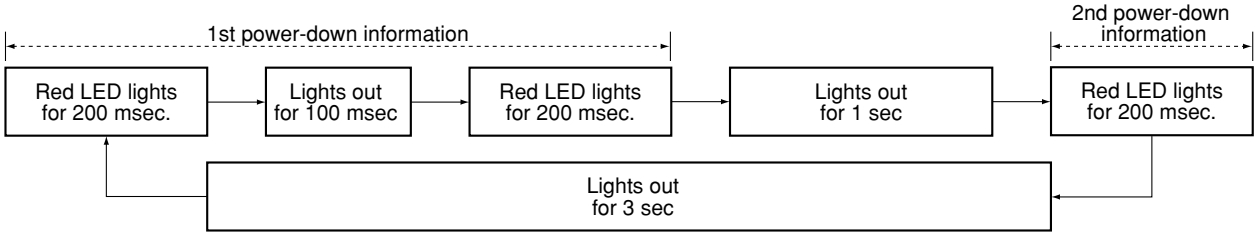
Number of blinks	Name
1	Panel Microcomputer NG
2	DIGITAL-IIC communication NG
3	Dewdrop abnormality
4	Temperature abnormality

How to release the shut down state
When turn the power supply ON by remote control units, release from the shut down state, and turn the power supply ON.
(It is not necessary to turn the AC power OFF.)

● Power Down

• Operations : When this unit becomes the dangerous state, turn the power supply OFF with the protection circuit.
• LED display : Red blinks
* When protection circuit more than two places almost worked simultaneously, display LED in order to 1st - 2nd.

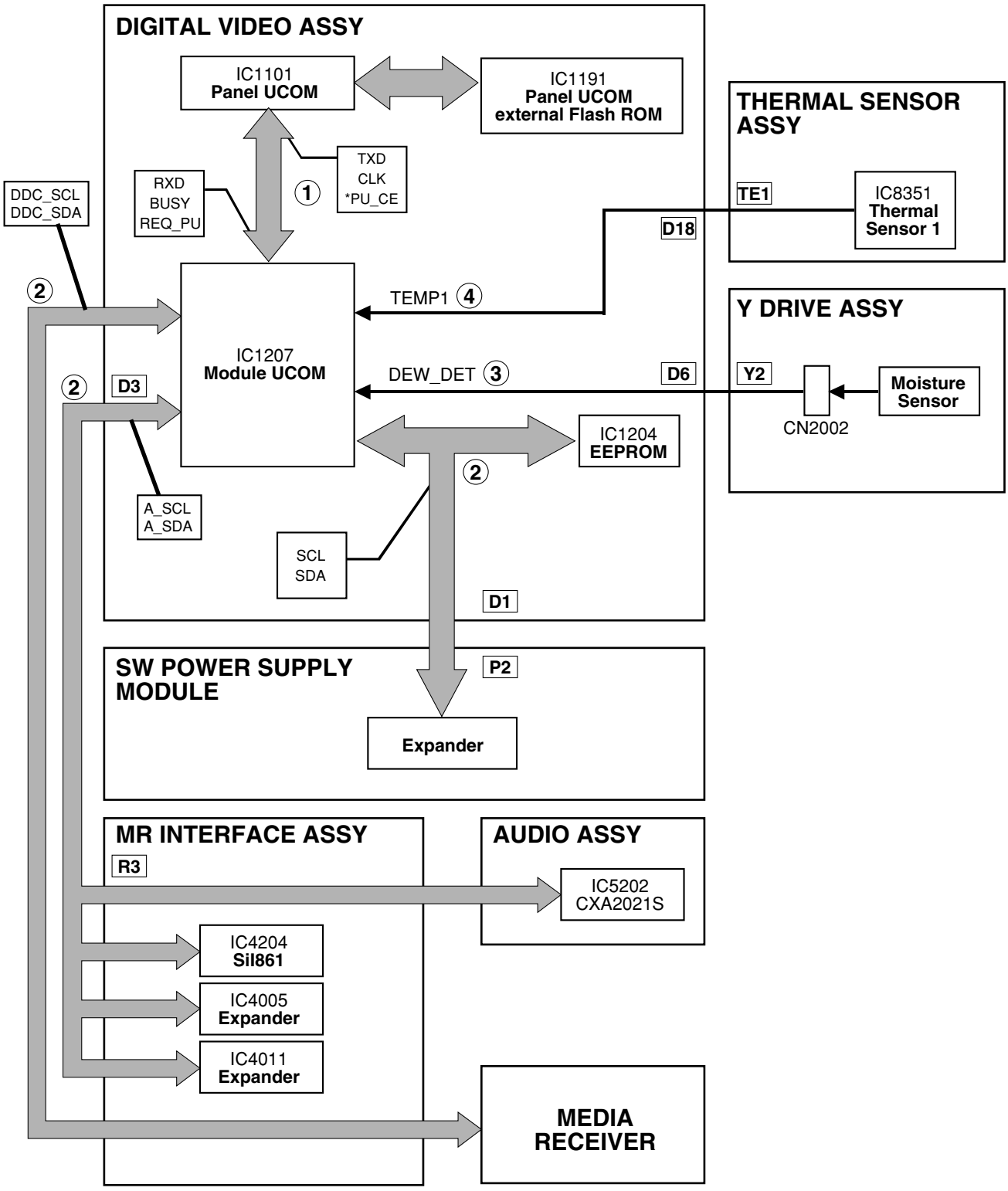
Examples: LED blinks in the 1st power down = Y-DC/DC CONVERTER, 2nd power down = Y-DRIVE



Number of blinks	Name
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	Address junction
7	Address resonance
8	DIGITAL-DC/DC CONVERTER

How to release the power down state
AC power OFF
↓
Wait for PD LED in the power supply module disappearing (for around 30 seconds).
↓
Afterwards, wait moreover for five seconds.
↓
Return by AC power ON.
* After power down release, this unit rises up in the standby state.

● **Block Diagram of Shut Down Signal System**



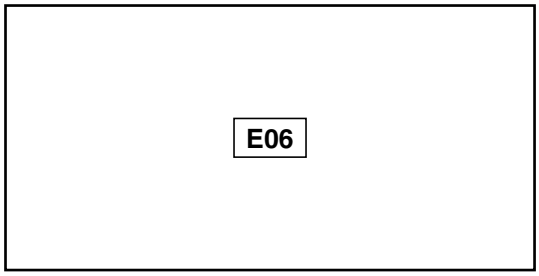
Note: ① - ④ show LED flashing number of times when shut down occurred in this route.

● Shut down diagnosis

① Panel microcomputer NG

When a module microcomputer failed in communication with a panel microcomputer, this NG occurs.
Shut down after OSD display for 30 seconds from the NG detection.

Abnormality to expect
Open / Short of communication line in the Assy



② DIGITAL-IIC communication NG

When a module microcomputer failed in communication with outside EEPROM or EXPANDER, this NG occurs.
Shut down after OSD display for 30 seconds from the NG detection.
* However, this communication NG may occur in the standby state.

Abnormality to expect
- Open / Short of communication line in the DIGITAL VIDEO, MR INTERFACE and AUDIO Assys
- Breaking of wire of the following points is thought about.
  DIGITAL VIDEO Assy (D1) ↔ SW POWER SUPPLY Module (P2)
  DIGITAL VIDEO Assy (D3) ↔ MR INTERFACE Assy (R3)
  MR INTERFACE Assy (R23) ↔ AUDIO Assy (A24)
  System Cable



③ Dew drop detection

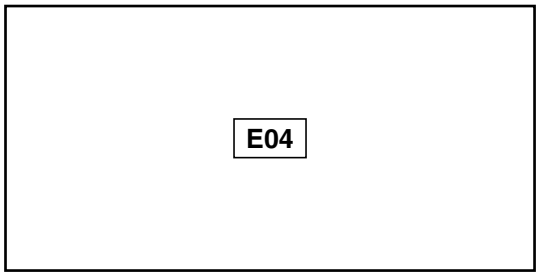
When it becomes the dew drop state in this unit, this NG occurs.
After the dew drop detection, shut down immediately.

Abnormality to expect for dew drop
Disconnect a connector CN2002 between Dew drop sensor and Y DRIVE Assy.

④ Temperature abnormality

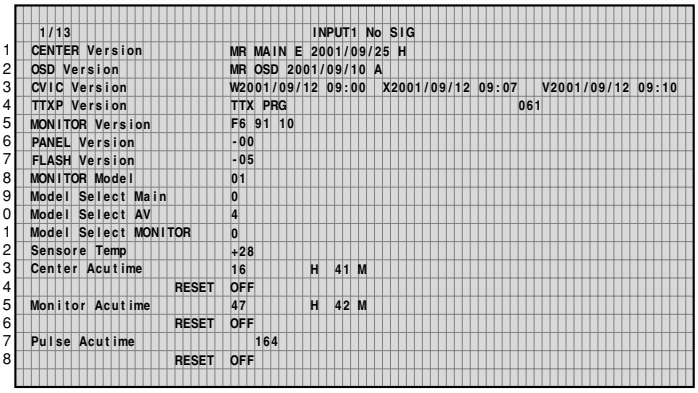
When temperature of this unit became abnormally high, this NG occurs.
Shut down after OSD display from the NG detection for 30 seconds.
Note: When temperature fell down during indication, return to the normal operation.

Abnormality to expect when it occurs in the environment that is not high-temperature
- Disconnect a connector between DIGITAL VIDEO Assy (D18) and temperature sensor 1 (TE1).

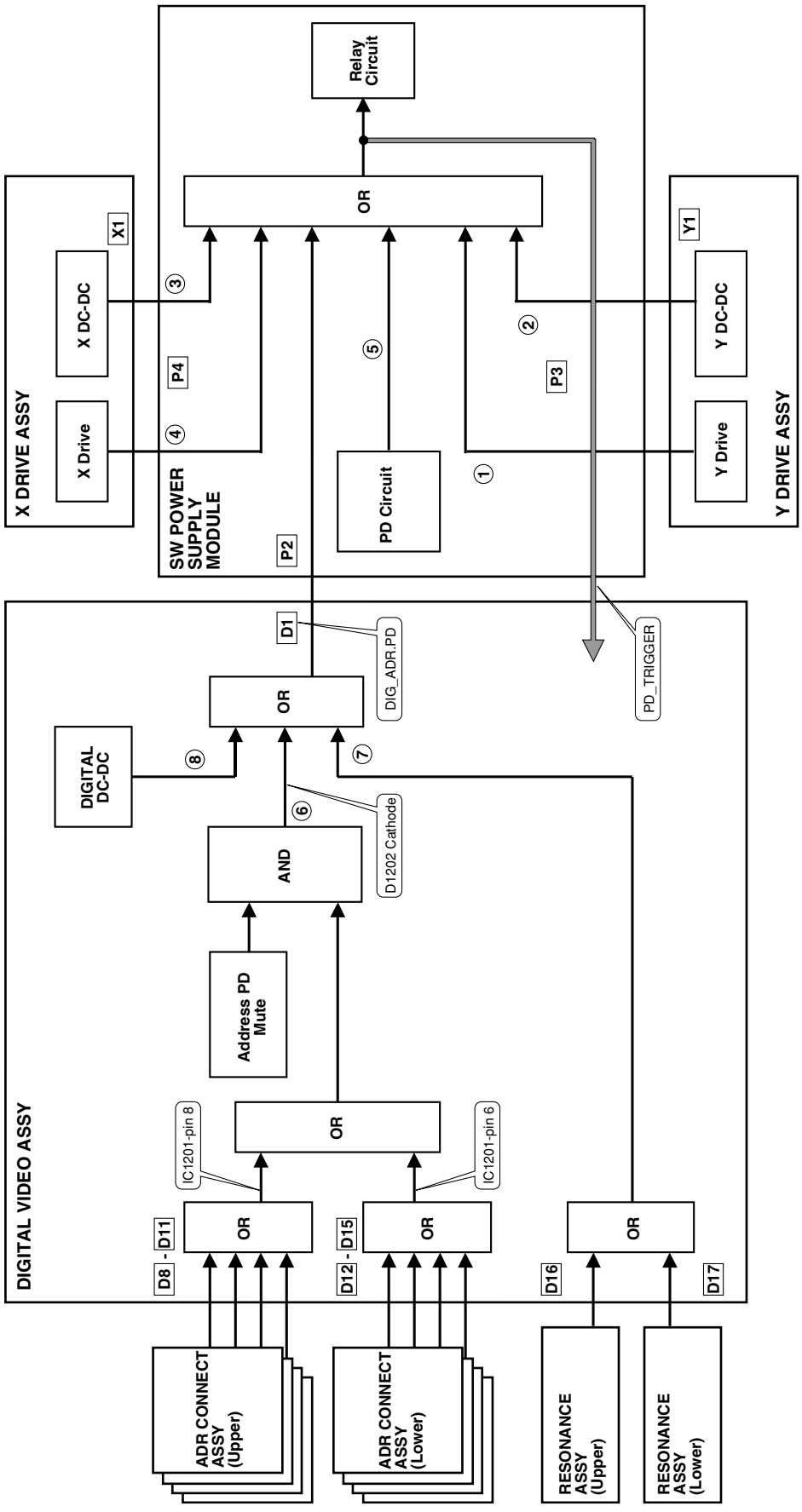


Reference

Shut down temperature of each temperature sensor
Sensor Temp ≧ 78



● **Block Diagram of Power Down Signal System**



Note: ① - ⑧ show LED flashing number of times when power down occurred in this route.

● **Kind and function of the various protection circuit (P.D. circuit)**

Assy Name	Red LED Number of Blinks	Kind of P.D. Circuit	Function	Remarks
Y DRIVE Assy	1	VCP OCP	P.D. by VCP overcurrent	
	2	VOFS OVP	P.D. by VOFS overvoltage	
		VOFS UVP	P.D. by VOFS undervoltage (= overcurrent)	
		VH OVP	P.D. by VH overvoltage	
		VH UVP	P.D. by VH undervoltage (= overcurrent)	
		IC5V UVP	P.D. by IC5V undervoltage (= overcurrent)	
X DRIVE Assy	3	VRN OVP	P.D. by VRN overvoltage	
		VRN UVP	P.D. by VRN undervoltage (= overcurrent)	
	4	VCP OCP	P.D. by VCP overcurrent	
		RESET OCP	P.D. by reset circuit overcurrent	
SW POWER SUPPLY Module	5	VSUS OVP	P.D. by VSUS overvoltage	
		VSUS UVP	P.D. by VSUS undervoltage (= overcurrent)	
		VADR OVP	P.D. by VADR overvoltage	
		VADR UVP	P.D. by VADR undervoltage (= overcurrent)	
		15V OVP	P.D. by 15V overvoltage	
		15V UVP	P.D. by 15V undervoltage (= overcurrent)	
		12V UVP	P.D. by 12V undervoltage (= overcurrent)	
		6.5V OVP	P.D. by 6.5V overvoltage	
		6.5V UVP	P.D. by 6.5V undervoltage (= overcurrent)	
		13.5V UVP	P.D. by 13.5V undervoltage (= overcurrent)	
		-9V UVP	P.D. by -9V undervoltage (= overcurrent)	
		+B OVP	P.D. by +B overvoltage	
		+B OCP	P.D. by +B overcurrent	
		AC200V P.D.	P.D. by AC200V apply	Note 1
			PFC module overheat protection	
			VSUS arc resistance overheat protection	
ADR CONNECT Assy	6	ADR.PD	P.D. by disconnecting the connector	
RESONANCE Assy	7	ADR.K.PD	P.D. by ICP open and TCP defective	
DIGITAL VIDEO Assy	8	5.0V OVP	P.D. by 5V overvoltage	
		5.0V UVP	P.D. by 5V undervoltage (= overcurrent)	
		3.3V OVP	P.D. by 3.3V overvoltage	
		3.3V UVP	P.D. by 3.3V undervoltage (= overcurrent)	
		2.5V OVP	P.D. by 2.5V overvoltage	
		2.5V UVP	P.D. by 2.5V undervoltage (= overcurrent)	

Reference
OVP : **O**ver **V**oltage **P**rotect
UVP : **U**nder **V**oltage **P**rotect
OCP : **O**ver **C**urrent **P**rotect

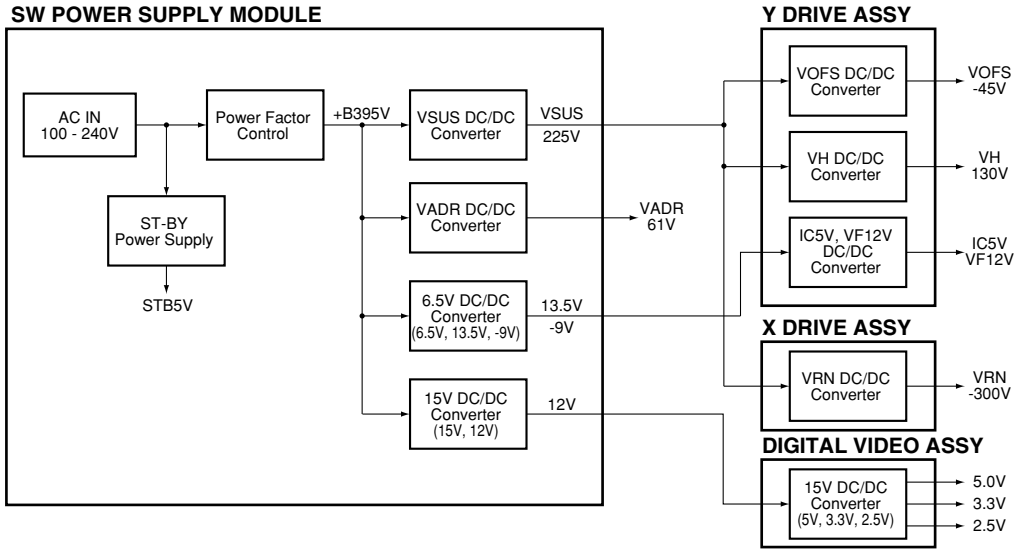
Note 1: AC200V P.D. is not applicable to the PDP-503PE and PDP-503PU models.

● Diagnosis of the error point in the various protection circuit (P.D. circuit) operation (Red LED blinks)

Number of Blinks	P.D. Point in Operation	Error Pont	Possible Part of Error	Circuit State	Operation P.D. Circuit	Diagnosis Condition
1	Y DRIVE	Y DRIVE Assy	IC2206, IC2214 (Pulse module), IC2203, IC2204, IC2212, IC2213, IC2213, IC2217, R2209	K2211 Lo	VCP OCP	
2	Y DC DC	VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2702, IC2709, IC2715	K2712 Lo	VOFS OVP	
		VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2701, IC2702, IC2709, IC2715	K2709 Lo	VOFS UVP	Drive section (control signal, output elements etc.) in normal operation
			Q2211, Q2212, R2277, IC2208, IC2210			VOFS D/D CONV. BLOCK in normal operation
		VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2712, IC2716	K2719 Lo	VH OVP	
		VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2711, IC2712, IC2716	K2718 Lo	VH UVP	Drive section (control signal, output elements etc.) in normal operation
		SCAN (A), (B) Assy	SCAN IC			VH D/D CONV. BLOCK in normal operation
		IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717			SCAN Assy in normal operation
		SCAN (A), (B) Assy	SCAN IC	K2713 Lo	IC5V UVP	IC5V D/D CONV. BLOCK in normal operation
		IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717			SCAN Assy in normal operation
3	X DC DC	VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3702, IC3712	K3708 Lo	VRN OVP	
		VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3701, IC3702, IC3712	K3705 Lo	VRN UVP	Drive section (control signal, output elements etc.) in normal operation
		X DRIVE Assy	Q3122			VRN D/D CONV. BLOCK in normal operation
4	X DRIVE	X DRIVE Assy	IC3200, IC3201 (pulse module), IC3103, IC3104, IC3106, IC3107, IC3110, IC3113, R3109	K3103 Lo	VCP OCP	
			Q3122	K3102 Lo	VRN OCP	
5	PS	X DRIVE Assy	IC3200, IC3201 (Pulse module)			When P4 connector disconnected, P.D. does not occur
		Y DRIVE Assy	IC2206, IC2214 (Pulse module)			When P3 connector disconnected, P.D. does not occur
		MX AUDIO Assy	IC8601 (Audio IC)			When P6 connector disconnected, P.D. does not occur
		ADDRESS CONNECT A - D Assy, RESONANCE Assy, D/D CONV. BLOCK (DIGITAL VIDEO Assy)				When pin 5 of P2 connector disconnected, P.D. does not occur
		SW POWER SUPPLY Module	SW POWER SUPPLY Module			When the voltage is not output even if P4, P3 and P6 connectors disconnected
6	ADR	ADDRESS CONNECT A~D Assy	Disconnect D8 - D15 connectors		ADR. PD	
7	ADR K	RESONANCE Assy	TCP damage of IC6704 (ICP), disconnect D16 and D17 connectors, panel microcomputer is defective, outside Flash ROM of the panel microcomputer is defective.		ADR. K. PD	
8	DIGITAL DC DC	D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1901 Lo	5.0V OVP	
				K1902 Lo	5.0V UVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1903 Lo	3.3V OVP	
				K1904 Lo	3.3V UVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1905 Lo	2.5V OVP	
				K1906 Lo	2.5V UVP	

Note: About PS PD
The condition that Red LED blinks five times (power supply PD)
1 When the internal protection circuit of SW POWER SUPPLY Module worked
2 When a microcomputer was not able to identify the PD point
↓
Being careful because the protection circuit of SW POWER SUPPLY Module cannot conclude that worked.

● Block diagram for Power supply section



● Supplementary information

1. Power on/off switch for the large-signal system (SW102)

Function: Only the power for the small-signal system (15V, 12V, 6.5V, 13.5V, and -9V) is on, and the power for the large-signal system (VSUS, VADR) is off.

Usage: Use when only an operational check for the small-signal system is required.

Supplementary information:
When this switch is to be used, the wires of pin 5 (DIG, ADR, and PD) of the P2 connector of the power-supply module should be disconnected to prevent the PD circuit from operating. To turn the power of the large-signal system off without using this switch, operation from an external PC through RS-232C commands "DRF" is basically required. In this case, the above procedure is not required, as the PD circuit is muted by software.

Method of power supply ON in the large signal system OFF state with RS-232C command

① Confirm that this unit is the standby state.
② Transmit RS-232C command "DRF."
③ Turn the power supply ON by remote control unit, side key or command "PON."

* When turn the power supply OFF once, return to setting of large signal system ON.
When turn the power supply ON in the large signal system OFF, transmit "DRF" command each time.

2. 200V AC power-down switch (SW101)

Function: While 200V AC voltage is applied, operation of the PD circuit is turned on and off (ON when the switch is set to 100V AC, and OFF when the switch is set to 200V AC).

Setting: For the PU model only, the switch is set to 100V, and for other models, it is set to 200V.

3. Temperature compensation of the VOFS voltage for the drive system

Function: Control the power supply voltage mentioned above according to temperature. (Temperature compensation works so that the voltage is lowered on the lower-temperature side, and is raised on the higher-temperature side.)

Purpose: To improve the yield by compensating the temperature characteristics of the panel.

Supplementary information:
For this model, temperature compensation is performed only for the VOFS voltage, and not for the VSUS voltage, and it is controlled by software.

4. When a fuse blows

- If a fuse blows, never turn the power on again only after replacing the fuse. (In most cases, the fuse itself did not have any problem. So as long as factors of overcurrent have not been removed, chances of destruction increase every time the power is turned on. In the worst case, about a dozen parts may be destroyed.)
- Principally, the whole power-supply module must be replaced.

5. Voltage adjustment of the panel drive

As this model employs the electronic VR system for the VSUS and VOFS voltages, and as the voltage-adjustment data are stored in the DIGITAL assembly, voltage adjustment of the panel drive is not necessary when the power-supply modules are changed. (For VADR, VH, and VRN, adjustments with semifixed VR controls are necessary.)

For this model, as the power-supply block has been developed and designed by an outside vendor, at the point you know which module is a cause of failure (through diagnosis described elsewhere in this manual), change the corresponding modules, and do not diagnose or repair the module.

Similarly, the switches and the semifixed VRs inside the power-supply module must not be adjusted without a special reason.

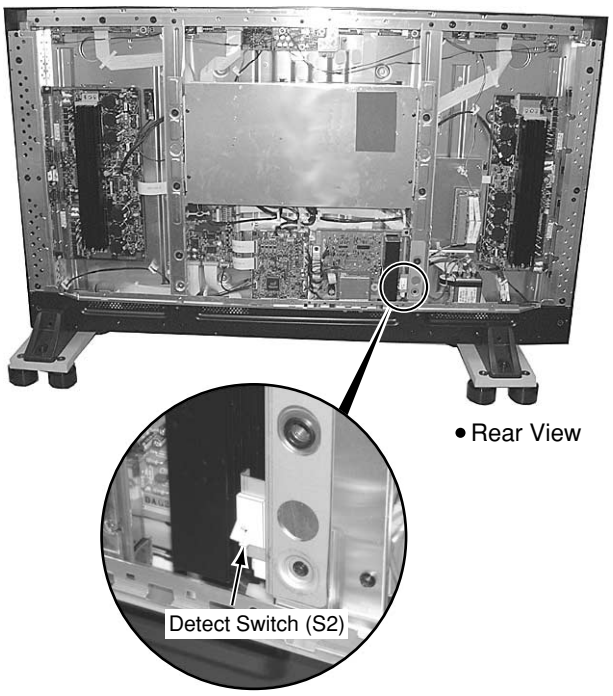
7.1.3 DISASSEMBLY

About detect switch

This unit adopt the "Rear Case opened ! detection" system. Please work in service as follows by all means.

● Outline and caution

Perform video transmission from the media receiver to the plasma display with digital signal in the PDP-503HD series. Therefore adopt contents protection by HDCP for copyright protection.
Moreover establish the detect switch which is never turned on the power when "a rear case of plasma display was opened carelessly".
Detect switch does not detect at the power supply OFF and the remote control unit wait state. Please stick this detect switch with tape before turning on the power in inside diagnoses of the plasma display. And please remove it not to forget the tape which stuck after the repair.



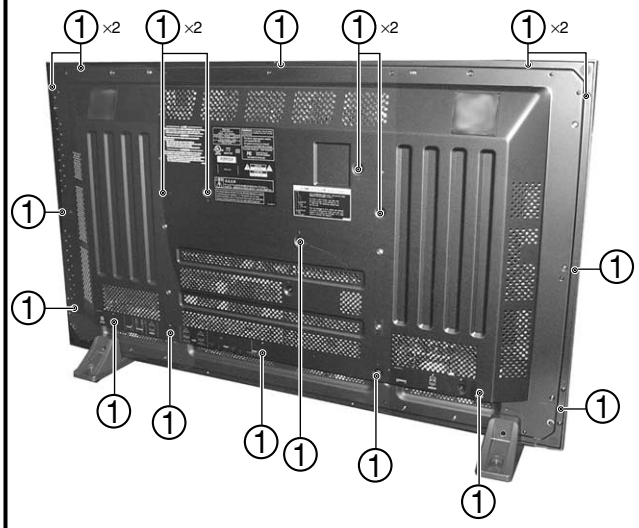
● Rear View

● When detect switch has worked by any chance

When detect switch works, LED of red blinks in succession by a 300msec period.
Press keys in order of "MENU" key, "ENTER" key and "POWER" key with the remote control unit after sticking the detect switch with tape or close the rear case beforehand.
This unit activates and it becomes the service factory mode screen. Afterwards, turn off the power with the remote control unit.
Perform the normal operation afterward.

SW Power Supply Module

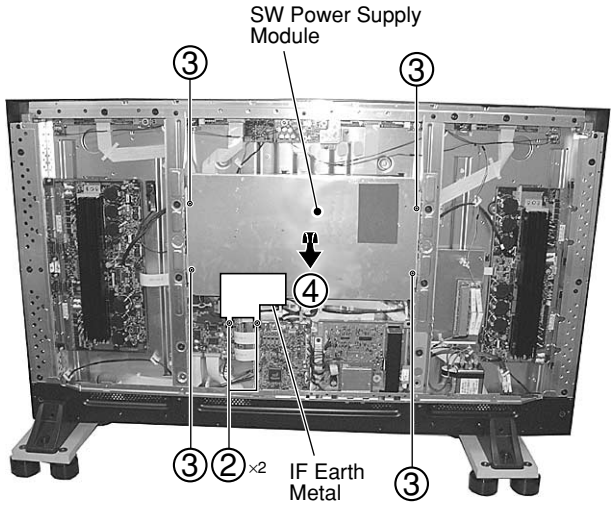
① Remove the Rear Case (50P).(Screws × 19)



② Remove the IF Earth Metal.(Screws × 2)

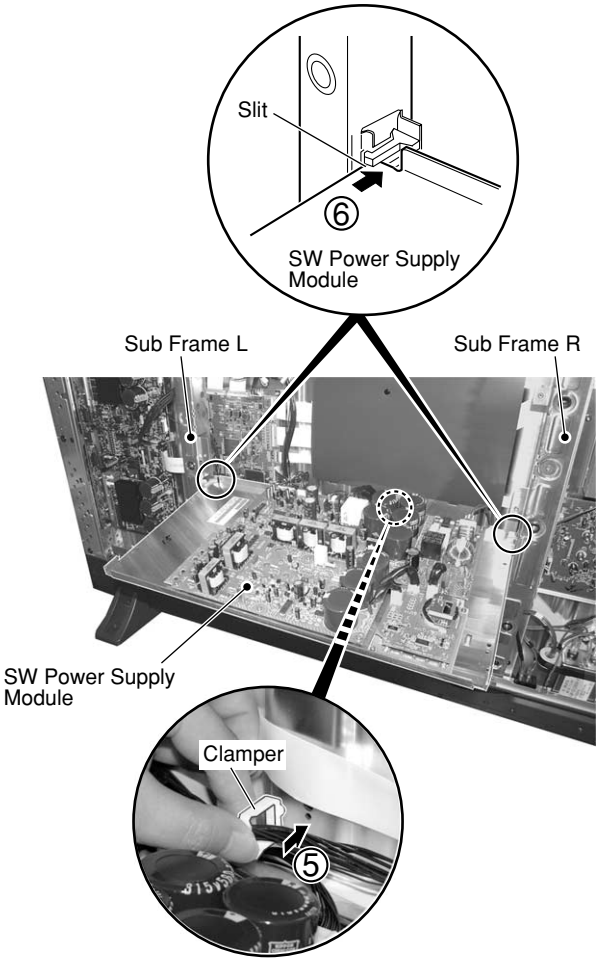
③ Remove four screws.

④ Remove the SW Power Supply Module.



⑤ Insert it and reduce the Clamper.

⑥ Insert the SW Power Supply Module into the slit of Sub Frame L and R.



Diagnosis

■ MR INTERFACE, AUDIO AMP SP TERMINAL and DIGITAL VIDEO Assys

① Remove the Rear Case (50P). (Screws × 19)

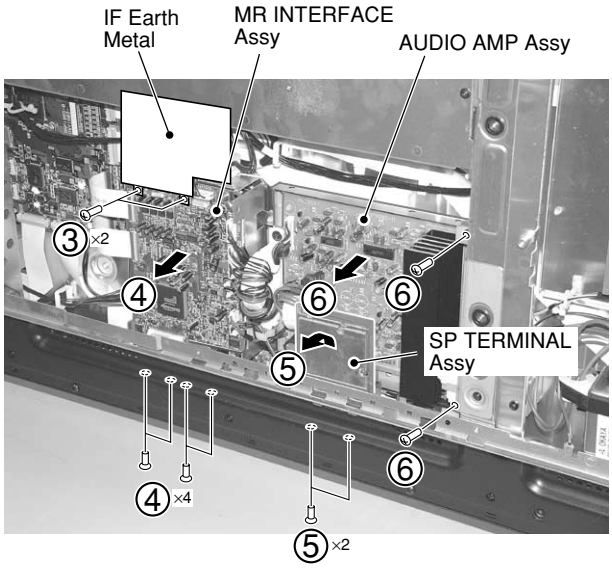
② Remove the SW Power Supply Module. (Connector, Screws × 4)

③ Remove the IF Earth Metal (Screws × 2)

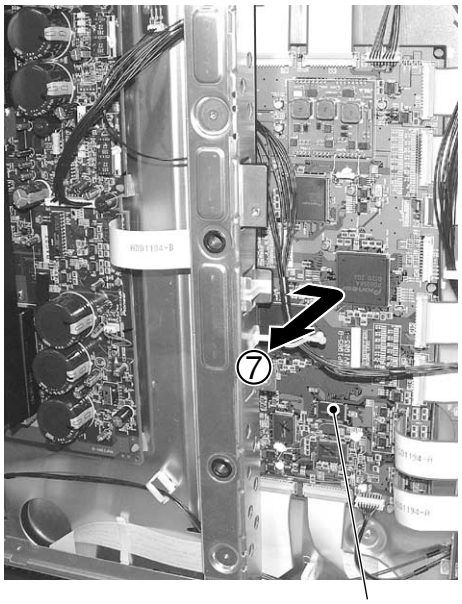
④ Remove the MR INTERFACE Assy (Connector, Screws × 4)

⑤ Remove the SP TERMINAL Assy (Connector, Screws × 2)

⑥ Remove the AUDIO AMP Assy (Connector, Screws × 2)

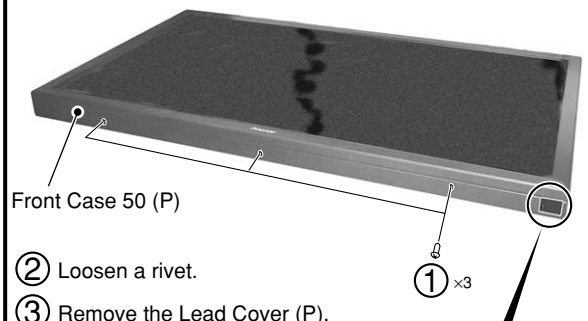


⑦ Remove the DIGITAL VIDEO Assy (Connector,Circuit Board Spacer × 6)



Y DRIVE, SCAN (A), (B) Assy

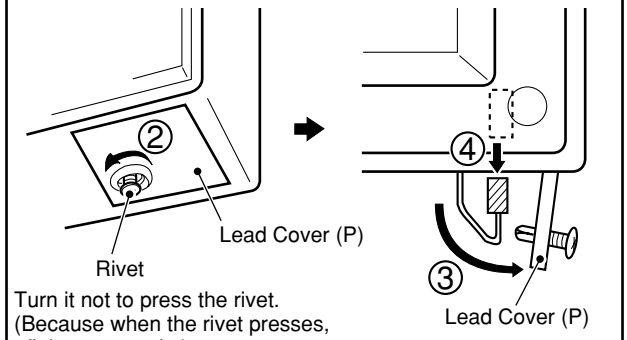
① Remove the three screws.



② Loosen a rivet.

③ Remove the Lead Cover (P).

④ Pull out a Flexible Cable.

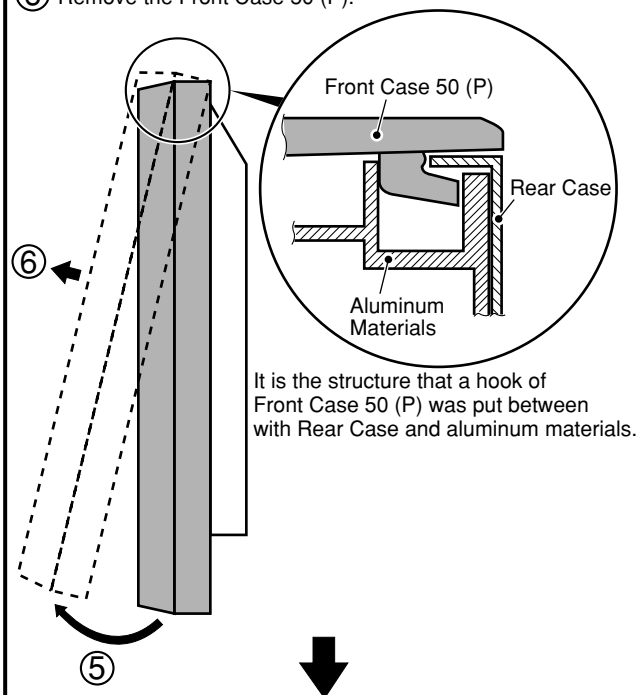


Turn it not to press the rivet.
(Because when the rivet presses, fit in once again.)

It is easy to remove when pull out the Lead Cover (P) with the rivet before completely removing the rivet.

⑤ Remove bottom by the fulcrum at the top of Front Case 50 (P).

⑥ Remove the Front Case 50 (P).

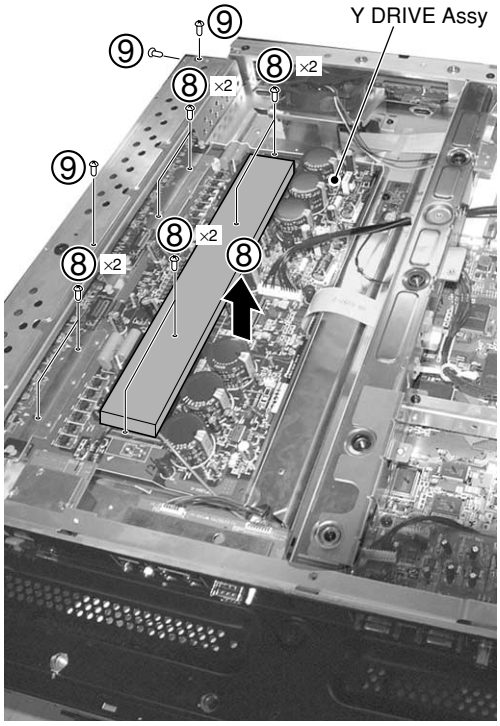


It is the structure that a hook of Front Case 50 (P) was put between with Rear Case and aluminum materials.

⑦ Remove the Rear Case (50P). (Screws × 19)

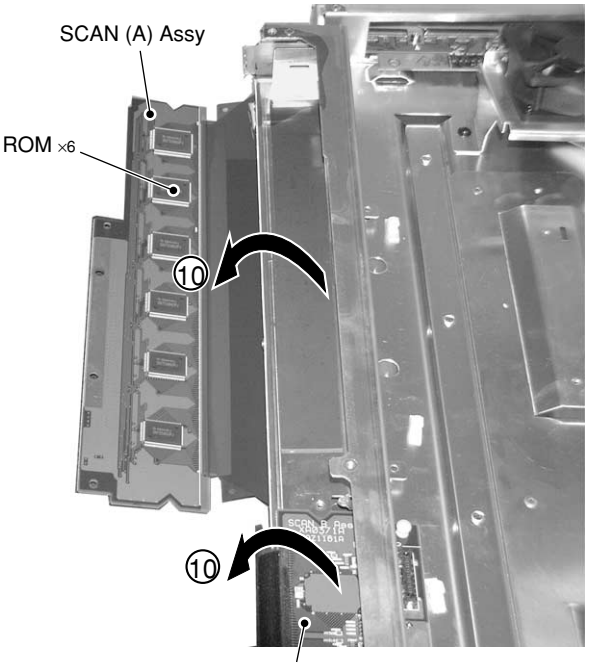
⑧ Remove the Y DRIVE Assy. (Connector, Screws × 8)

⑨ Remove the Front Chassis V. (Screws × 5)



⑩ Reverse the SCAN (A) and SCAN (B) Assemblies.

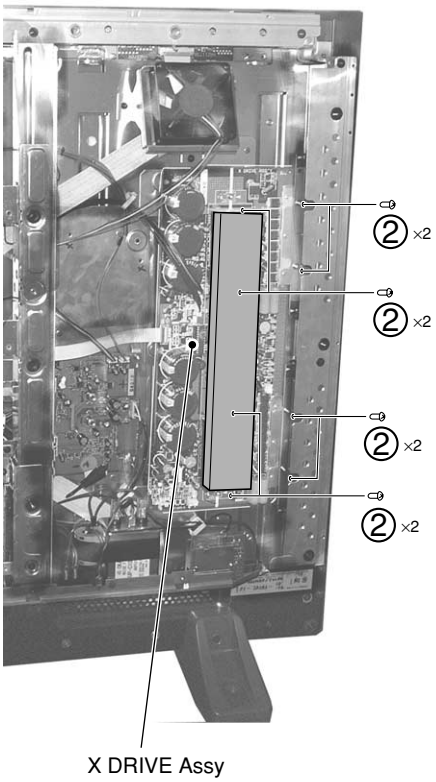
⑪ When it is necessary, exchange the ROM.



X DRIVE Assy

① Remove the Rear Case (50P). (Screws × 19)

② Remove the X DRIVE Assy. (Connector, Screws × 8)



7.2 IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

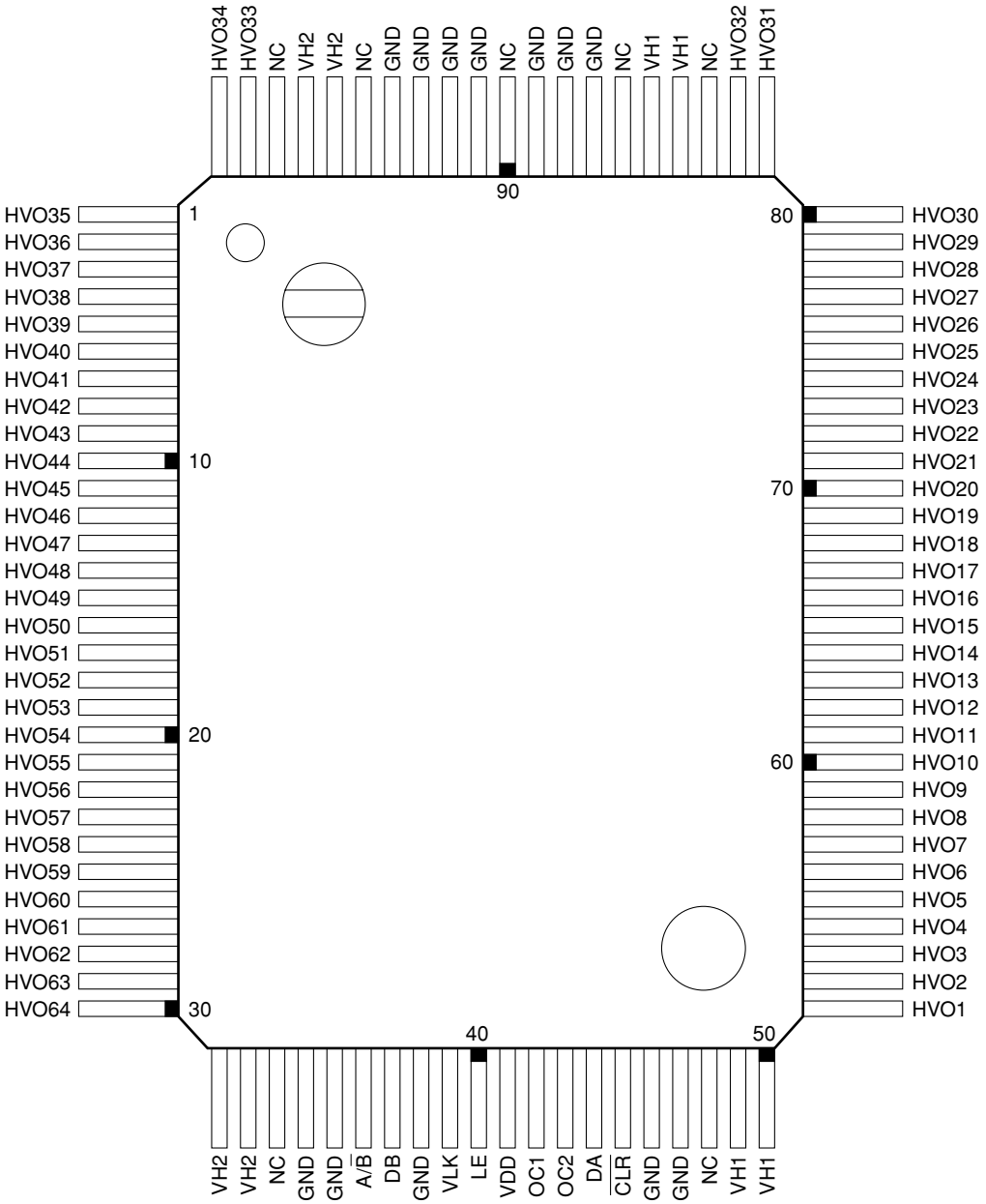
●List of IC

SN755860PJ, HD64F2328VF, PE1013B, M30624FGAFP, PD6358A, PST9246N, FS781BZB, STK795-460

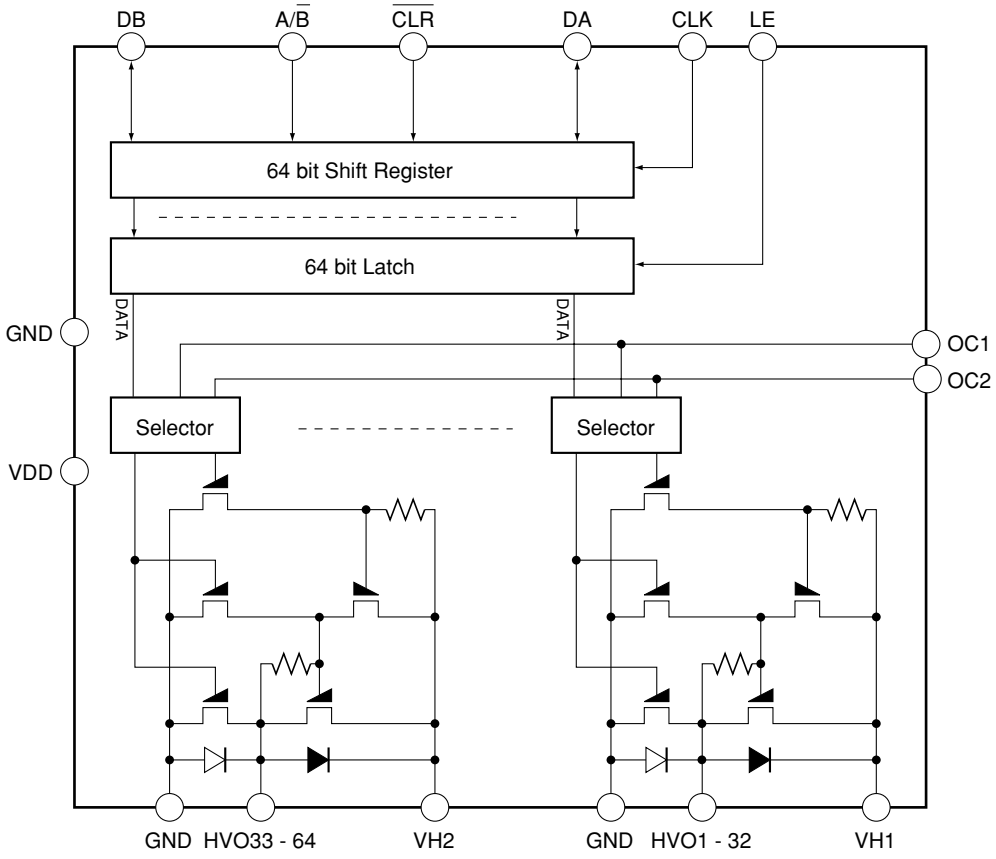
■ SN755860PJ (SCAN B ASSY : IC6201 - IC6206)
SN755860PJ (SCAN A ASSY : IC6001 - IC6006)

• Scan IC

● Pin Assignment (Top view)



● Block Diagram



● Pin Function

Name	Pin No.	I/O	Num.	Function
CLK	39	I	1	Shift clock (start edge partial response)
DA	44	I/O	1	The serial data input of shifting register
DB	37	I/O	1	The serial data output of shifting register
LE	40	I	1	It output data done a latch of by "L" level
A/B	36	I	1	A shift directional control signal of shift register
CLR	45	I	1	It do data of shift register with "L" by "L" level
OC1	42	I	1	An output control terminal of HVO
OC2	43	I	1	An output control terminal of HVO
HVO	1-30, 51-82, 99, 100	O	64	High voltage drive output (HVO1 - HVO64)
VDD	41	–	1	Logic power supply
GND	34, 35, 38, 46, 47, 87-89, 91-94	–	12	Standard potential. This is common to HVO1 - HVO64.
VH1	84, 85, 49, 50	–	4	The high potential circuit power supply which is common to HVO1 - HVO32
VH2	31, 32, 96, 97	–	4	The high potential circuit power supply which is common to HVO33 - HVO64
NC	33, 48, 95, 83, 86, 90, 98	–	7	It is the insulation electrically

■ HD64F2328VF (DIGITAL VIDEO ASSY : IC1101)

• Panel Microcomputer

● Pin Function

No.	Pin Name	Function
1	CS_23	PE5064 (IC1703) control output
2	NC	NC Terminal
3	VSS	GND
4	VSS	GND
5	VCC	3.3V power supply
6	UA0	Address bus
7	UA1	Address bus
8	UA2	Address bus
9	UA3	Address bus
10	VSS	GND
11	UA4	Address bus
12	UA5	Address bus
13	UA6	Address bus
14	UA7	Address bus
15	UA8	Address bus
16	UA9	Address bus
17	UA10	Address bus
18	UA11	Address bus
19	VSS	GND
20	UA12	Address bus
21	UA13	Address bus
22	UA14	Address bus
23	UA15	Address bus
24	UA16	Address bus
25	UA17	Address bus
26	UA18	Address bus
27	UA19	Address bus
28	VSS	GND
29	UA20	Address bus
30	PA5	NC terminal
31	PA6	NC terminal
32	PA7	NC terminal
33	CE_PN	Enables / for panel microcomputer
34	CE_PN	Enables / for panel microcomputer
35	VSS	GND
36	VSS	GND
37	APLP	The APL value acquisition trigger signal input
38	VD_31	The V signal input from IC1401 (PD6358)
39	VCC	3.3V power supply
40	UD0	Data bus
41	UD1	Data bus
42	UD2	Data bus
43	UD3	Data bus
44	VSS	GND
45	UD4	Data bus
46	UD5	Data bus
47	UD6	Data bus
48	UD7	Data bus
49	UD8	Data bus
50	UD9	Data bus

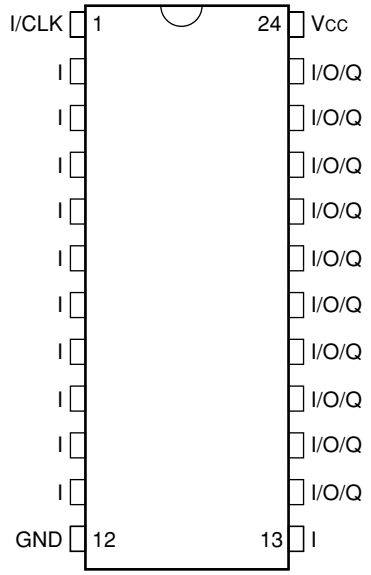
No.	Pin Name	Function
51	UD10	Data bus
52	UD11	Data bus
53	VSS	GND
54	UD12	Data bus
55	UD13	Data bus
56	UD14	Data bus
57	UD15	Data bus
58	VCC	3.3V power supply
59	D_TXD	Communication with IC1207 (module microcomputer)
60	EXT_TXD	Communication with the outside (program notes)
61	D_RXD	Communication with IC1207 (module microcomputer)
62	EXT_RXD	Communication with the outside (program notes)
63	D_CLK	Communication with IC1207 (module microcomputer)
64	P60	NC terminal
65	VSS	GND
66	CS_FLASH	A flash memory control terminal
67	VSS	GND
68	VSS	GND
69	P61	NC terminal
70	UDREQ	IC1703 (PE5064) control terminal
71	P63	NC terminal
72	WE_FLASH	A flash memory note control signal (unused)
73	BUSY	The command receipt of a message lye Norwich output
74	REQ_PU	A communication demand to a module microcomputer
75	SEL23B	IC1703 (PE5064) control terminal
76	CLRB	IC1703 (PE5064) control terminal
77	FR_SEL	The free run select signal output
78	RST31B	The reset output to IC1301, IC1401 (PD6358)
79	RST23B	The reset output to IC1703 (PE5064)
80	FWE	Microcomputer program note control signal
81	RESET	Reset input
82	NMI	The at the rate of tang input (unused)
83	STBY	The hardware standby input (unused)
84	VCC	3.3V power supply
85	XTAL	A clock oscillation child connection terminal
86	EXTAL	A clock oscillation child connection terminal
87	VSS	GND
88	PF7	NC terminal
89	VCC	3.3V power supply
90	PF6	NC terminal
91	RDB	A read control terminal from an outside slave device
92	HWRB	A wright control terminal to an outside slave device
93	PF3	NC terminal
94	PF2	NC terminal
95	PF1	NC terminal
96	PF0	NC terminal
97	P50	NC terminal
98	P51	NC terminal
99	VSS	GND
100	VSS	GND

No.	Pin Name	Function
101	P52	NC terminal
102	P53	NC terminal
103	AVCC	3.3V power supply
104	VREF	A/D, D/A reference voltage input (unused)
105	STOPB	The drive control input from IC1703 (PE5064)
106	P41	NC terminal
107	RYBY	The flash memory note ready input
108	ADR_K_EMG_L1	The emergency input from panel bottom address resonance block
109	ADR_K_EMG_U1	The emergency input from panel upper address resonance block
110	ADR_K_EMG_L2	The emergency input from panel bottom address resonance block (unused)
111	ADR_K_EMG_U2	The emergency input from panel upper address resonance block (unused)
112	P47	NC terminal
113	AVSS	GND
114	VSS	GND
115	MUTE_ADR	The panel mute signal input
116	MUTE_SUS	The X and Y drive mute signal output (unused)
117	P15	NC terminal
118	HD	The HD signal input from outside Assy (RGB Assy etc.)
119	P13	NC terminal
120	P12	NC terminal
121	PC_VIDEO	The PC/Video identification output
122	VD	The HD signal input from outside Assy (RGB Assy etc.)
123	MD0	The microcomputer mode of operation select signal input
124	MD1	The microcomputer mode of operation select signal input
125	MD2	The microcomputer mode of operation select signal input
126	PG0	NC terminal
127	CS_31Y	IC1301, IC1401 (PD6358) control signal
128	CS_31X	IC1301, IC1401 (PD6358) control signal

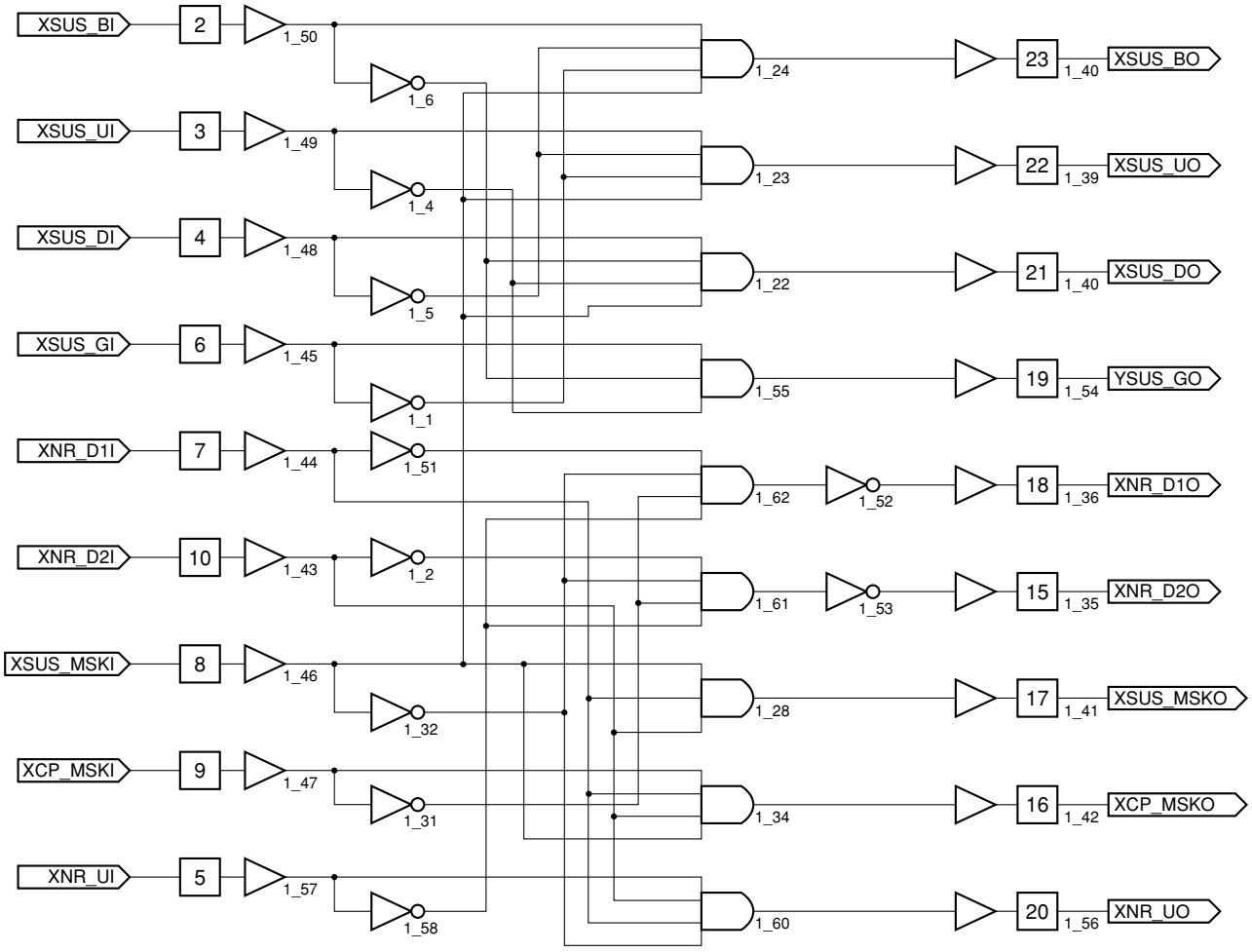
■ PE1013B (X DRIVE ASSY : IC3003)

• Drive Protect PLD

● Pin Assignment (Top View)



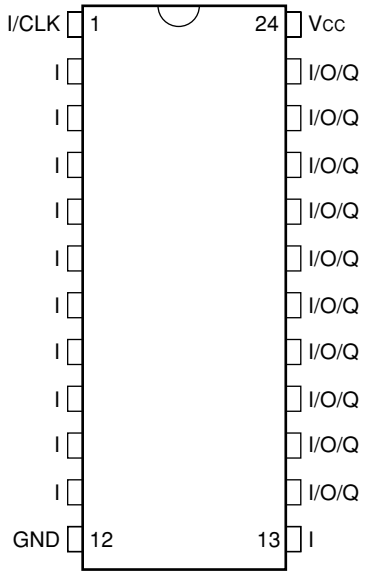
● Block Diagram



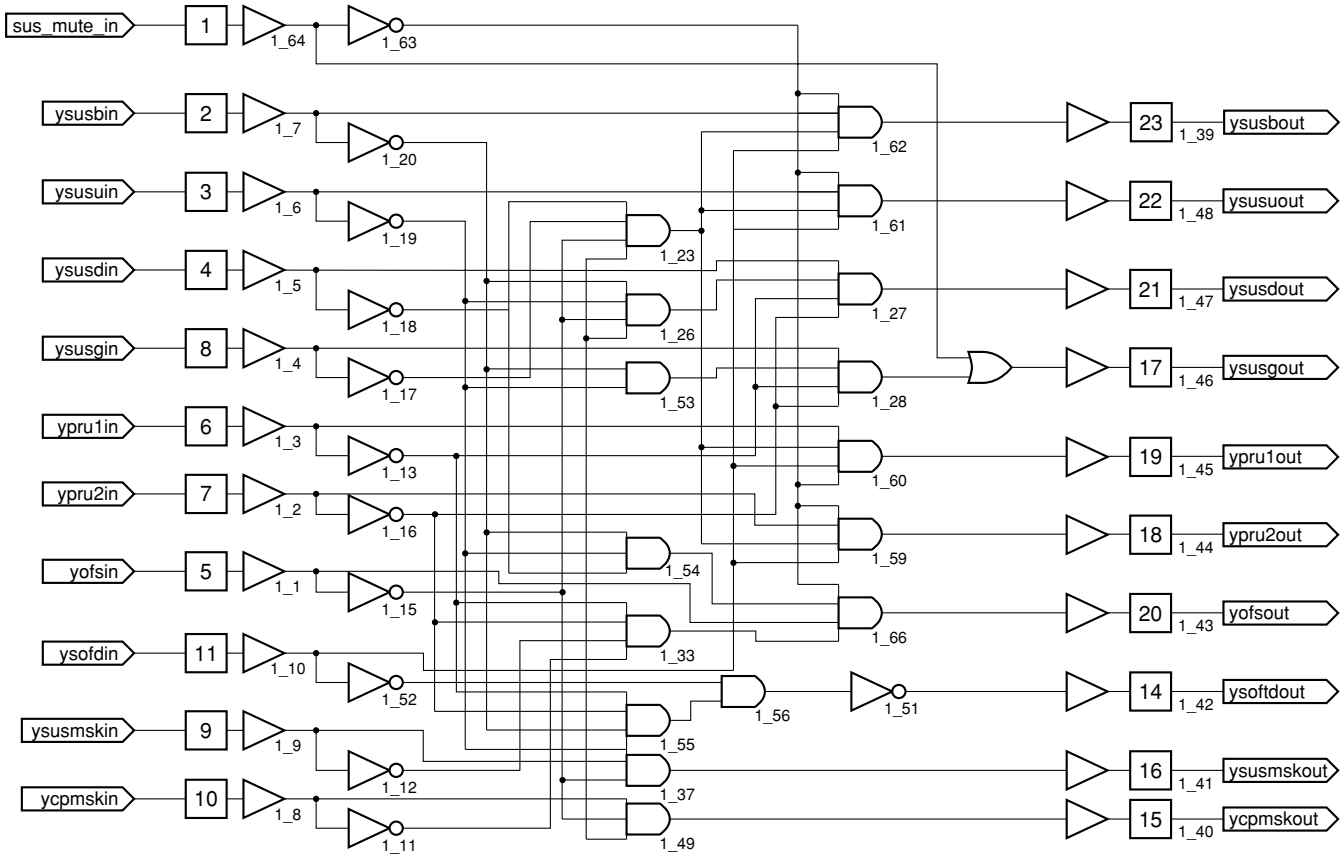
■ PE1013B (Y DRIVE ASSY : IC2006)

• Drive Protect PLD

● Pin Assignment (Top View)



● Block Diagram



■ M30624FGAFP (DIGITAL VIDEO ASSY : IC1207)

• Module Microcomputer

● Pin Function

No.	Pin Name	Function
1	TXD	Serial 3 line data output for communication with a panel microcomputer
2	CLK	Serial 3 line clock for communication with a panel microcomputer
3	NC	NC terminal
4	NC	NC terminal
5	NC	NC terminal
6	NC	NC terminal
7	NC	NC terminal
8	BYTE	The external data bus width reshuffling input (I am unused and connect GND)
9	CNVSS	A power supply for program note (a note, 5V, usually, pull-down
10	XCIN	NC terminal
11	XCOUT	NC terminal
12	RESET	A reset input terminal
13	XOUT	Clock output terminal
14	VSS	GND
15	XIN	Clock input terminal
16	VCC	5V standby power
17	NMI	Because a NMI interruption terminal is unused, It handle pull up.
18	REM	The SR signal input
19	REQ_PU	A communication demand from a panel microcomputer (the pulse meter acquisition)
20	/SW_TRG	Main switch OFF / ON search
21	NC	NC terminal
22	NC	NC terminal
23	NC	NC terminal
24	AC_OFF	AC power OFF search and power supply ASSY differentiation.
25	PD_TRIGGER	Power down search
26	NC	NC terminal
27	NC	NC terminal
28	NC	NC terminal
29	SCL	EEPROM, IIC communication with power supply ASSY
30	SDA	EEPROM, IIC communication with power supply ASSY
31	TXD1	Communication with the outside (a program note)
32	RXD1	Communication with the outside (a program note)
33	CLK1	Communication with the outside (a program note)
34	BUSY1	Communication with the outside (a program note)
35	TXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
36	RXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
37	NC	NC terminal
38	REQ_MD/A_MUTE	232C communication demand (a request to a main microcomputer) / audio system mute
39	NC	NC terminal
40	NC	NC terminal
41	EPM	The EPM input for program note (L fixation)
42	NC	NC terminal
43	PU_CE	Enables/ for panel microcomputer
44	NC	NC terminal
45	MOD_SW/A_NG	The model of machines distinction input / audio system NG input
46	CE	The CE input for program note (H fixation)
47	DITHER/SW_STC	Power supply search of a dither setting / media receiver for module
48	NC	NC terminal
49	/SW_STP	Power supply search of a panel
50	NC	NC terminal

No.	Pin Name	Function
51	NC	NC terminal
52	RELAY	The output for power supply ON / OFF change
53	POWER/MSTATE	Input / SII861 master information for power supply ON / OFF change
54	NC	NC terminal
55	WE_PN	Buffer state control for panel microcomputer note
56	MD0	The panel microcomputer mode of operation change output
57	MD2	The panel microcomputer mode of operation change output
58	FWE	The panel microcomputer program note control signal output
59	RST_PU	The panel microcomputer reset output
60	PN_MUTE	The panel mute input
61	NC	NC terminal
62	VCC	5V standby power
63	NC	NC terminal
64	VSS	GND
65	NC	NC terminal
66	NC	NC terminal
67	/A_SCL	IIC clock for audio system
68	/A_SDA	IIC data for audio system
69	APD_MUTE	A mute signal of address series
70	ADR_K_PD	The address oscillatory system PD input
71	ADR_PD	The address series PD input
72	DCC_PD	The power supply system PD input
73	NC	NC terminal
74	NC	NC terminal
75	RST2	Panel microcomputer reset search
76	NC	NC terminal
77	/DDC_SCL	IIC communication with a media receiver
78	/DDC_SDA	IIC communication with a media receiver
79	NC	NC terminal
80	NC	NC terminal
81	DEW_DET	The dew condensation sensor input
82	NC	NC terminal
83	NC	NC terminal
84	NC	NC terminal
85	NC	NC terminal
86	LED_G	Green LED lighting (LED on interface ASSY in a panel module)
87	LED_R	Red LED lighting (LED on interface ASSY in a panel module)
88	NC	NC terminal
89	BUSY	Communication permission / inhibiting signal from a panel microcomputer
90	NC	NC terminal
91	NC	NC terminal
92	/F_KEY1	The front KEY input
93	MAX_PLS2/F_KEY2	The terminal / front KEY input for brightness setting mode of operation change
94	TEMP1	The A/D input for temperature sensor
95	MAX_PLS? /CCKM	Terminal / connection search for brightness setting mode of operation change
96	AVSS	GND for AD conversion
97	PM_ST	The A/D input for model of machines distinction
98	VREF	Reference voltage for AD conversion
99	AVCC	5V standby power for AD conversion
100	RXD	Serial 3 line data entry for communication with a panel microcomputer

■ PD6358A (DIGITAL VIDEO ASSY : IC1301)

• **Picture Improved IC**

● **Pin Function**

No.	Pin Name	Function
1	VSS	GND
2	TESTO6	Test output terminal (unused)
3	OSDCLK	The CLK input for OSD
4	TTST	Test input terminal (unused)
5	VDDI	2.5V power supply
6	OVDDE-01	3.3V power supply
7	AGO0	Address data output (G signal)
8	VDDI	2.5V power supply
9	AGO2	Address data output (G signal)
10	AGO3	Address data output (G signal)
11	AGO4	Address data output (G signal)
12	VDDI	2.5V power supply
13	ARO6	Address data output (R signal)
14	AGO7	Address data output (G signal)
15	VDDI	2.5V power supply
16	ARO9	Address data output (R signal)
17	ABO9	Address data output (B signal)
18	VDDI	2.5V power supply
19	ADRCLKO2	The address CLK output (for panel upper part)
20	ARO12	Address data output (R signal)
21	ARO13	Address data output (R signal)
22	AGO14	Address data output (G signal)
23	AGO15	Address data output (G signal)
24	ARO16	Address data output (R signal)
25	ARO17	Address data output (R signal)
26	VSS	GND
27	ABO17	Address data output (B signal)
28	AGO17	Address data output (G signal)
29	AGO18	Address data output (G signal)
30	ABO19	Address data output (B signal)
31	UDAT15	Microcomputer data bus
32	UDAT12	Microcomputer data bus
33	UDAT9	Microcomputer data bus
34	UDAT5	Microcomputer data bus
35	OVDDE-06	3.3V power supply
36	APLP	APL value output trigger signal
37	OVDDE-08	3.3V power supply
38	CS5BI	The chip select input
39	CS4BI	The chip select input
40	UADRI13	Microcomputer address bus
41	UADRI9	Microcomputer address bus
42	UADRI6	Microcomputer address bus
43	UADRI2	Microcomputer address bus
44	UADRI1	Microcomputer address bus
45	TESTI2	Test input terminal (unused)
46	BIT0	The subfield No output (the 0 bit)
47	OVDDE-11	3.3V power supply
48	TESTO4	Test output terminal (unused)
49	ARO39	Address data output (G signal)
50	AGO38	Address data output (G signal)

No.	Pin Name	Function
51	VSS	GND
52	ABO37	Address data output (B signal)
53	ABO36	Address data output (B signal)
54	ARO36	Address data output (R signal)
55	ABO34	Address data output (B signal)
56	ADRCLKO4	The address CLK output (for panel bottom part)
57	AGO33	Address data output (G signal)
58	AGO32	Address data output (G signal)
59	AGO31	Address data output (G signal)
60	AGO30	Address data output (G signal)
61	AGO29	Address data output (G signal)
62	VDDI	2.5V power supply
63	ABO27	Address data output (B signal)
64	AGO26	Address data output (G signal)
65	VDDI	2.5V power supply
66	AGO24	Address data output (G signal)
67	VDDI	2.5V power supply
68	ABO22	Address data output (B signal)
69	VDDI	2.5V power supply
70	ARO21	Address data output (R signal)
71	ARO20	Address data output (R signal)
72	VDDI	2.5V power supply
73	OVDDE-14	3.3V power supply
74	TDI	The JTAG input
75	RBI9	The R picture B aspect signal input (the ninth bit)
76	VSS	GND
77	RBI8	The R picture B aspect signal input (the eighth bit)
78	RBI6	The R picture B aspect signal input (the sixth bit)
79	RBI4	The R picture B aspect signal input (the fourth bit)
80	OVSS-09	GND
81	RSTB	Reset input
82	GBI8	The G picture B aspect signal input (the eighth bit)
83	OVDDE-18	3.3V power supply
84	GBI5	The G picture B aspect signal input (the fifth bit)
85	GBI2	The G picture B aspect signal input (the second bit)
86	DEI	DE signal input
87	BBI6	The B picture B aspect signal input (the sixth bit)
88	BBI3	The B picture B aspect signal input (the third bit)
89	VDI	VD signal input
90	HDI	HD signal input
91	RAI6	The R picture A aspect signal input (the sixth bit)
92	RAI2	The R picture A aspect signal input (the second bit)
93	TESTI0	Test input terminal (unused)
94	OVSS-11	GND
95	GAI7	The G picture A aspect signal input (the seventh bit
96	GAI3	The G picture A aspect signal input (the third bit)
97	GAI0	The G picture A aspect signal input (the 0 bit)
98	BAI6	The B picture A aspect signal input (the sixth bit)
99	BAI3	The B picture A aspect signal input (the third bit)
100	BAI0	The B picture A aspect signal input (the 0 bit)

No.	Pin Name	Function
101	TESTO7	Test output terminal (unused)
102	TESTO5	Test output terminal (unused)
103	OSDH	OSDH input
104	BLK	OSDBLK input
105	OSDB	OSDB signal input
106	NC	NC terminal
107	ARO1	Address data output (R signal)
108	ARO2	Address data output (R signal)
109	ARO3	Address data output (R signal)
110	ARO4	Address data output (R signal)
111	ARO5	Address data output (R signal)
112	ABO5	Address data output (B signal)
113	ARO7	Address data output (R signal)
114	ARO8	Address data output (R signal)
115	ABO8	Address data output (B signal)
116	AGO9	Address data output (G signal)
117	AGO10	Address data output (G signal)
118	ADRCLKO1	Address CLK output (for panel upper part)
119	ABO11	Address data output (B signal)
120	ABO12	Address data output (B signal)
121	ARO14	Address data output (R signal)
122	ARO15	Address data output (R signal)
123	ABO15	Address data output (B signal)
124	ABO16	Address data output (B signal)
125	AGO16	Address data output (G signal)
126	ARO18	Address data output (R signal)
127	AGO19	Address data output (G signal)
128	OVDDE-05	3.3V power supply
129	UDAT13	Microcomputer data bus
130	UDAT10	Microcomputer data bus
131	UDAT6	Microcomputer data bus
132	UDAT3	Microcomputer data bus
133	UDAT0	Microcomputer data bus
134	OVDDE-07	3.3V power supply
135	LR	The panel LR select input
136	RDBI	Microcomputer read control terminal
137	CLKSEL	CLK select input
138	UADRI10	Microcomputer address bus
139	UADRI7	Microcomputer address bus
140	UADRI3	Microcomputer address bus
141	CYCLEB	Address data output control signal
142	BIT2	Subfield No. output (the second bit)
143	SFSTB	Address data output control signal
144	OVSS-05	GND
145	TESTO2	Test output terminal (unused)
146	ABO38	Address data output (B signal)
147	ARO38	Address data output (R signal)
148	ARO37	Address data output (R signal)
149	AGO36	Address data output (G signal)
150	ARO35	Address data output (R signal)

No.	Pin Name	Function
151	ADRCLKO3	The address CLK output (for panel bottom part)
152	ABO33	Address data output (B signal)
153	ABO32	Address data output (B signal)
154	VDDI	2.5V power supply
155	ABO30	Address data output (B signal)
156	VDDI	2.5V power supply
157	ABO28	Address data output (B signal)
158	ARO28	Address data output (R signal)
159	ABO26	Address data output (B signal)
160	ABO25	Address data output (B signal)
161	ABO24	Address data output (B signal)
162	ARO24	Address data output (R signal)
163	ARO23	Address data output (R signal)
164	ARO22	Address data output (R signal)
165	AGO21	Address data output (G signal)
166	AGO20	Address data output (G signal)
167	TDO	JTAG signal
168	TMS	JTAG signal
169	RBI7	The R picture B aspect signal input (the seventh bit)
170	TCK	JTAG signal
171	RBI5	The R picture B aspect signal input (the fifth bit)
172	RBI3	The R picture B aspect signal input (the third bit)
173	RBI1	The R picture B aspect signal input (the first bit)
174	OVDDE-16	3.3V power supply
175	GBI7	The G picture B aspect signal input (the seventh bit)
176	OVSS-10	GND
177	GBI4	The G picture B aspect signal input (the fourth bit)
178	GBI1	The G picture B aspect signal input (the first bit)
179	BBI9	The B picture B aspect signal input (the ninth bit)
180	BBI5	The B picture B aspect signal input (the fifth bit)
181	BBI2	The B picture B aspect signal input (the second bit)
182	RAI9	The R picture A aspect signal input (the ninth bit)
183	CLK3	CLK input terminal (unused)
184	RAI5	The R picture A aspect signal input (the fifth bit)
185	RAI1	The R picture A aspect signal input (the first bit)
186	TESTI1	Test input terminal (unused)
187	GAI9	The G picture A aspect signal input (the ninth bit)
188	GAI6	The G picture A aspect signal input (the sixth bit)
189	GAI2	The G picture A aspect signal input (the second bit)
190	BAI9	The B picture A aspect signal input (the ninth bit)
191	BAI5	The B picture A aspect signal input (the fifth bit)
192	BAI2	The B picture A aspect signal input (the second bit)
193	BAI1	The B picture A aspect signal input (the first bit)
194	OVSS-01	GND
195	OVSS-02	GND
196	OSDG	OSDG signal input
197	ARO0	Address data output (R signal)
198	ABO0	Address data output (B signal)
199	ABO1	Address data output (B signal)
200	ABO2	Address data output (B signal)

No.	Pin Name	Function
201	ABO3	Address data output (B signal)
202	ABO4	Address data output (B signal)
203	OVDDE-02	3.3V power supply
204	ABO6	Address data output (B signal)
205	ABO7	Address data output (B signal)
206	VDDI	2.5V power supply
207	OVDDE-03	3.3V power supply
208	ARO10	Address data output (R signal)
209	ABO10	Address data output (B signal)
210	AGO11	Address data output (G signal)
211	AGO12	Address data output (G signal)
212	ABO13	Address data output (B signal)
213	ABO14	Address data output (B signal)
214	OVDDE-04	3.3V power supply
215	OVSS-03	GND
216	ARO19	Address data output (R signal)
217	TESTO1	Test output terminal (unused)
218	UDAT14	Microcomputer data bus
219	UDAT11	Microcomputer data bus
220	UDAT7	Microcomputer data bus
221	UDAT4	Microcomputer data bus
222	UDAT1	Microcomputer data bus
223	VDRD	V signal output
224	HWRBI	Microcomputer wright control terminal
225	UADRI14	Microcomputer address bus
226	OVDDE-09	3.3V power supply
227	UADRI11	Microcomputer address bus
228	UADRI8	Microcomputer address bus
229	UADRI4	Microcomputer address bus
230	BIT3	Subfield No. output (the third bit)
231	BIT1	Subfield No. output (the first bit)
232	OVDDE-10	3.3V power supply
233	TESTO3	Test output terminal (unused)
234	ABO39	Address data output (B signal)
235	AGO37	Address data output (G signal)
236	OVSS-06	GND
237	AGO35	Address data output (G signal)
238	ADRCLKO5	Address CLK output (for panel bottom part)
239	ARO34	Address data output (R signal)
240	ARO33	Address data output (R signal)
241	ABO31	Address data output (B signal)
242	ARO31	Address data output (R signal)
243	ABO29	Address data output (B signal)
244	ARO29	Address data output (R signal)
245	OVDDE-12	3.3V power supply
246	ARO27	Address data output (R signal)
247	ARO26	Address data output (R signal)
248	ARO25	Address data output (R signal)
249	OVDDE-13	3.3V power supply
250	AGO23	Address data output (G signal)

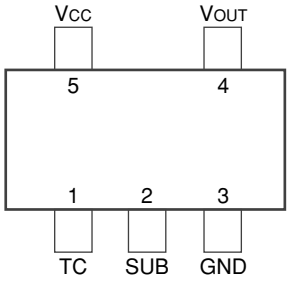
No.	Pin Name	Function
251	AGO22	Address data output (G signal)
252	VDDI	2.5V power supply
253	ABO20	Address data output (B signal)
254	OVSS-07	GND
255	OVDDE-15	3.3V power supply
256	OVSS-08	GND
257	RBI2	The R picture B aspect signal input (the second bit)
258	TRST	JTAG signal
259	GBI9	The G picture B aspect signal input (the ninth bit)
260	GBI6	The G picture B aspect signal input (the sixth bit)
261	OVDDE-17	3.3V power supply
262	GBI3	The G picture B aspect signal input (the third bit)
263	GBI0	The G picture B aspect signal input (the 0 bit)
264	BBI8	The B picture B aspect signal input (the eighth bit)
265	BBI4	The B picture B aspect signal input (the fourth bit)
266	BBI1	The B picture B aspect signal input (the first bit)
267	RAI8	The R picture A aspect signal input (the eighth bit)
268	OVDDE-19	3.3V power supply
269	RAI4	The R picture A aspect signal input (the fourth bit)
270	RAI0	The R picture A aspect signal input (the 0 bit)
271	FREERUN	The freerun control input
272	GAI8	The G picture A aspect signal input (the eighth bit)
273	GAI5	The G picture A aspect signal input (the fifth bit)
274	GAI1	The G picture A aspect signal input (the first bit)
275	BAI8	The B picture A aspect signal input (the eighth bit)
276	BAI4	The B picture A aspect signal input (the fourth bit)
277	VDDE	3.3V power supply
278	OSDV	OSDV input
279	VSS	GND
280	OSDR	OSDR signal input
281	VDDE	3.3V power supply
282	AGO1	Address data output (G signal)
283	VSS	GND
284	VDDI	2.5V power supply
285	VDDI	2.5V power supply
286	AGO5	Address data output (G signal)
287	AGO6	Address data output (G signal)
288	VDDI	2.5V power supply
289	AGO8	Address data output (G signal)
290	VSS	GND
291	ADRCLKO0	The address CLK output (for panel upper part)
292	VDDE	3.3V power supply
293	ARO11	Address data output (R signal)
294	VSS	GND
295	AGO13	Address data output (G signal)
296	VDDE	3.3V power supply
297	ABO18	Address data output (B signal)
298	VSS	GND
299	TESTO0	Test output terminal (unused)
300	VDDI	2.5V power supply

No.	Pin Name	Function
301	UDAT8	Microcomputer data bus
302	VSS	GND
303	UDAT2	Microcomputer data bus
304	VDDI	2.5V power supply
305	OVSS-04	GND
306	UADRI15	Microcomputer address bus
307	VDDI	2.5V power supply
308	UADRI12	Microcomputer address bus
309	VSS	GND
310	UADRI5	Microcomputer address bus
311	VDDI	2.5V power supply
312	NC	NC terminal
313	VSS	GND
314	AGO39	Address data output (G signal)
315	VDDE	3.3V power supply
316	ABO35	Address data output (B signal)
317	VSS	GND
318	AGO34	Address data output (G signal)
319	VDDE	3.3V power supply
320	ARO32	Address data output (R signal)
321	VSS	GND
322	ARO30	Address data output (R signal)
323	VDDI	2.5V power supply
324	AGO28	Address data output (G signal)
325	AGO27	Address data output (G signal)
326	NC	NC terminal
327	AGO25	Address data output (G signal)
328	VSS	GND
329	ABO23	Address data output (B signal)
330	VDDE	3.3V power supply
331	ABO21	Address data output (B signal)
332	VSS	GND
333	VPD	GND
334	VDDE	3.3V power supply
335	RBI0	The R picture B aspect signal input (the 0 bit)
336	VSS	GND
337	ACLK	CLK input (25MHz)
338	VDDI	2.5V power supply
339	CLK4	CLK input (50MHz)
340	VSS	GND
341	BBI7	The B picture B aspect signal input (the seventh bit)
342	VDDI	2.5V power supply
343	BBI0	The B picture B aspect signal input (the 0 bit)
344	RAI7	The R picture A aspect signal input (the seventh bit)
345	VDDI	2.5V power supply
346	RAI3	The R picture A aspect signal input (the third bit)
347	VSS	GND
348	CLK2	The image system CLK input
349	VDDI	2.5V power supply
350	GAI4	The G picture A aspect signal input (the fourth bit)
351	VSS	GND
352	BAI7	The B picture A aspect signal input (the seventh bit)

■ PST9246N (DIGITAL VIDEO ASSY : IC1208)

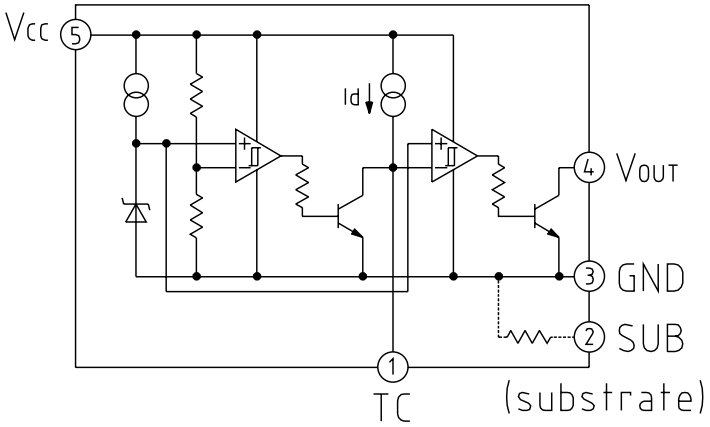
• Reset IC

● Pin Assignment (Top View)



SOT-25
(TOP VIEW)

● Block Diagram



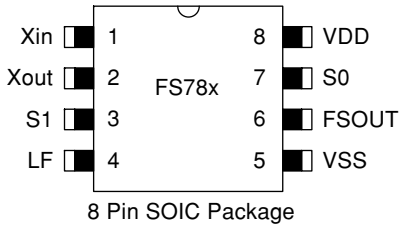
● Pin Function

Pin No.	Pin name	Functions
1	TC	TPLH control pin
2	SUB	Substate pin
3	GND	GND pin
4	VOUT	Reset signal output pin
5	VCC	VCC pin / voltage detect pin

FS781BZB (DIGITAL VIDEO ASSY : IC1802)

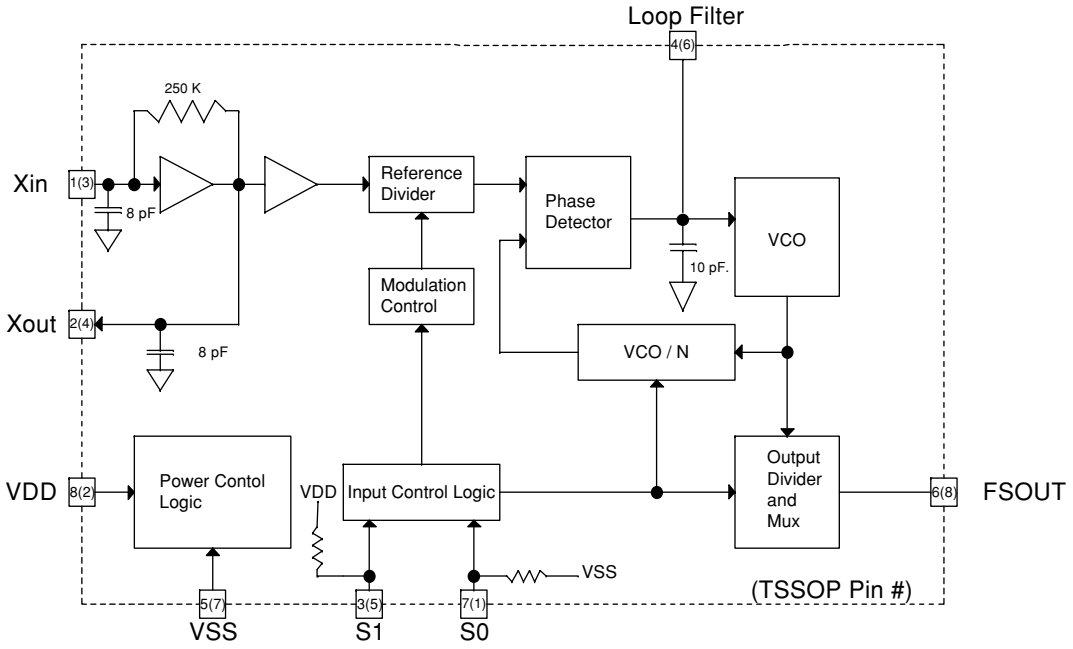
- **Low EMI Clock IC**

• Pin Assignment (Top View)



8 Pin SOIC Package

• Block Diagram



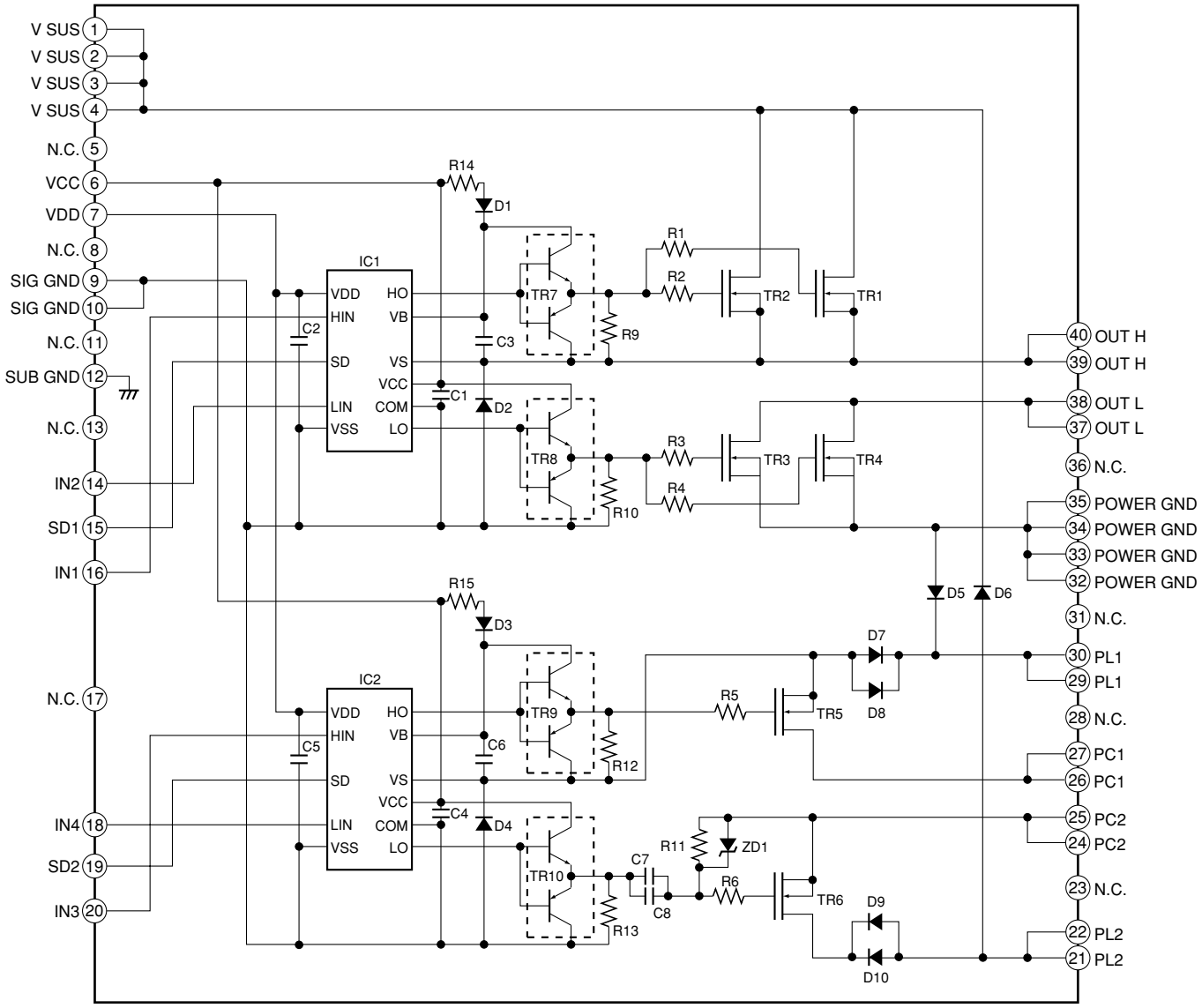
• Pin Function

No.	Pin Name	I/O	Type	Function
1/2	Xin/Xout	I/O	Analog	Pins form an on-chip reference oscillator when connected to terminals of an external parallel resonant crystal. Xin may be connected to TTL/CMOS external clock source. If Xin connected to external clock other than crystal, leave Xout (pin2) unconnected.
7/3	S0/S1	I	CMOS/TTL	Digital control inputs to select input frequency range and output frequency scaling. Refer to Tables 7 and 8 for selection. S0 has internal pulldown. S1 has internal pullup.
4	LF	I	Analog	Loop Filter. Single ended tri-state output of the phase detector. A two-pole passive loop filter is connected to Loop Filter (LF).
6	FSOUT	O	CMOS/TTL	Modulated Clock Frequency Output. The center frequency is the same as the input reference frequency for FS781. Input frequency is multipled by 2X and 4X for FS782 and FS784 respectively.
8	VDD	P	Power	Positive Power Supply
5	VSS	P	Power	Power Supply Ground

■ STK795-460 (X DRIVE ASSY : IC3200, IC3201)
(Y DRIVE ASSY : IC2206, IC2214)

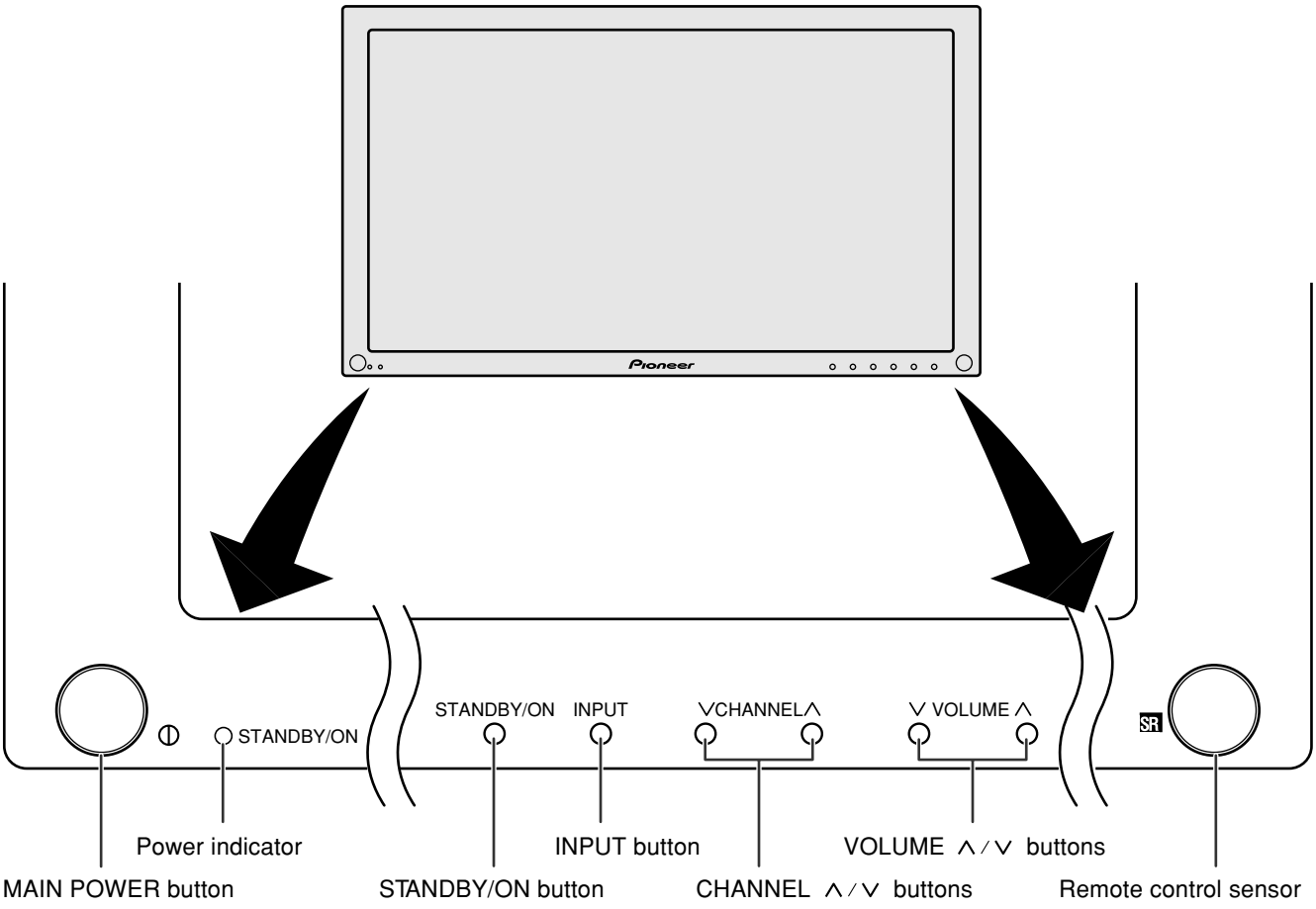
- **PDP Pulse Module IC**

● Block Diagram



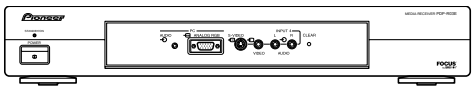
8. PANEL FACILITIES

Plasma Display



Pioneer sound.vision.soul

Service Manual



ORDER NO.
ARP3110

MEDIA RECEIVER

PDP-R03E

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	PDP-R03E		
WYVI6	○	AC220-240V	

- **Please connect it to the PLASMA DISPLAY PDP-503PE or PDP-433PE, for adjustment and operation inspection.**

Component	System		Service Manual	Remarks
PLASMA DISPLAY SYSTEM	PDP-503HDE	PDP-433HDE	——	
PLASMA DISPLAY	PDP-503PE	——	ARP3107, ARP3108	
	——	PDP-433PE	ARP3111, ARP3112	
MEDIA RECEIVER	PDP-R03E		ARP3110	This manual.

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For details, refer to "Important symbols for good services" on the next page.

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PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

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T – ZZK NOV. 2001 Printed in Japan

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

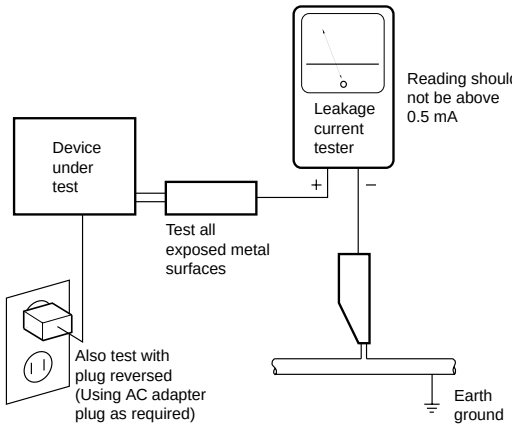
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

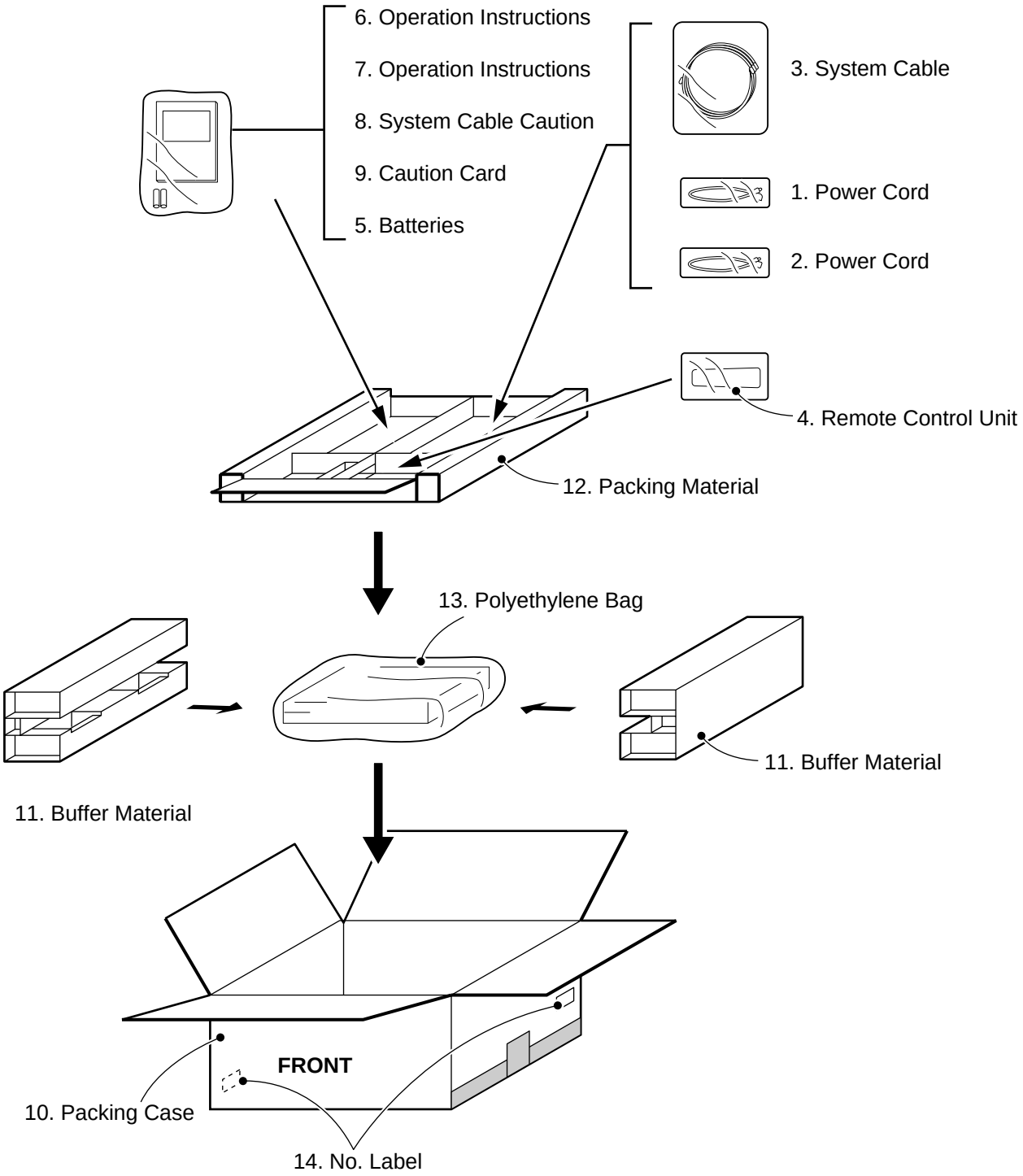
Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

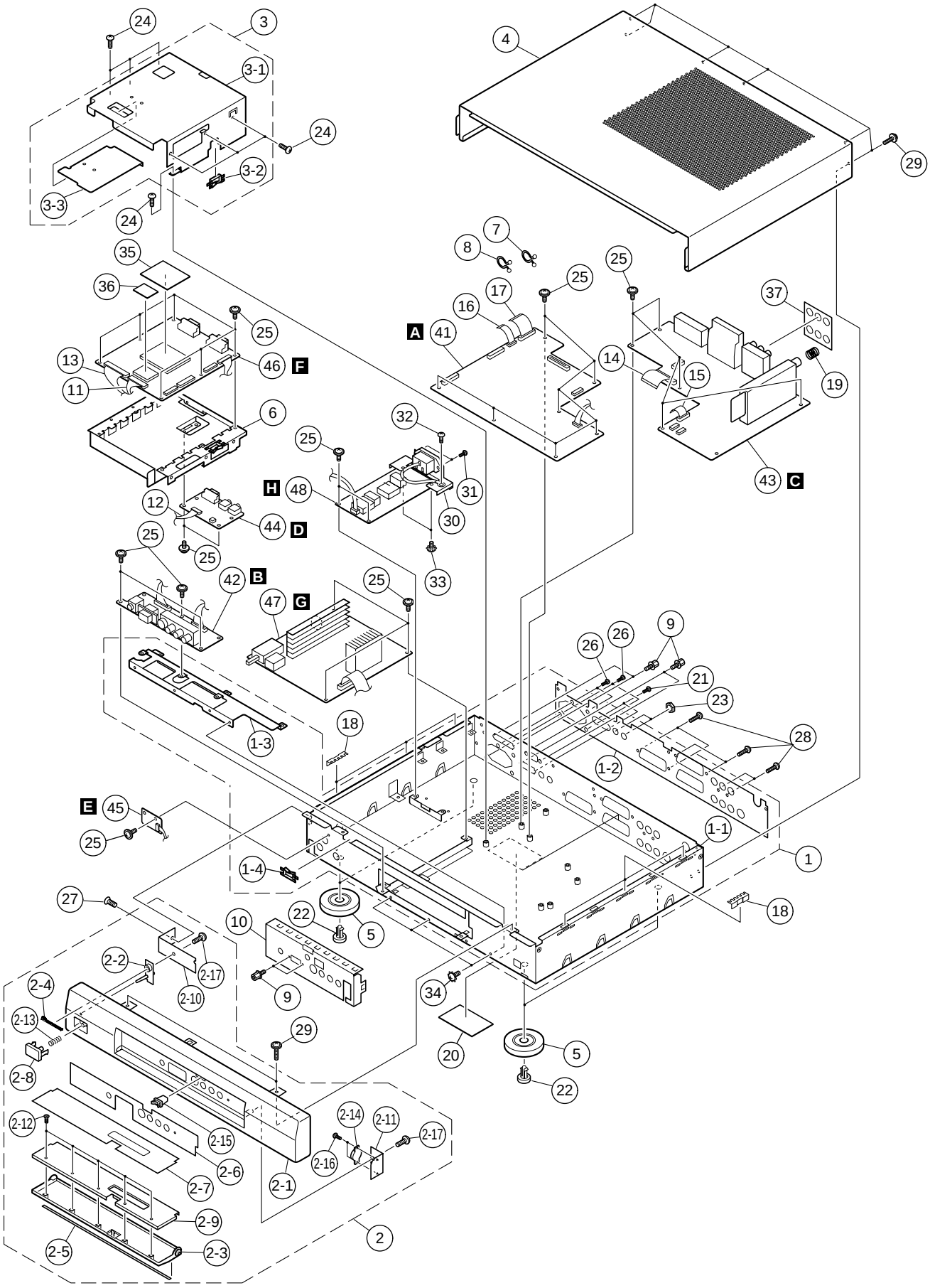
2.1 PACKING



● PACKING PARTS LIST

Mark	No.	Description	Part No.
⚠	1	Power Cord (For Europe)	QACCBA005WJZZ
⚠	2	Power Cord (For U.K.)	QACCVA002WJZZ
	3	System Cable	QCNW-6117CEZZ
	4	Remote Control Unit	RRMCG1677CESA
NSP	5	Battery (AA)	• • • • • •
	6	Operation Instructions	TINS-7495CEZZ
	7	Operation Instructions	TINS-7597CEZZ
	8	System Cable Caution	TCAUH1226CEZZ
	9	Caution Card	TCAUH1230CEZZ
	10	Packing Case	SPAKC5584CEZZ
	11	Buffer Material	SPAKX2077CEZZ
	12	Packing Material	SPAKF0515CEZZ
	13	Polyethylene Bag	SSAKH0173CEZZ
	14	No. Label	TLABK0016CEZZ

2.2 EXTERIOR SECTION



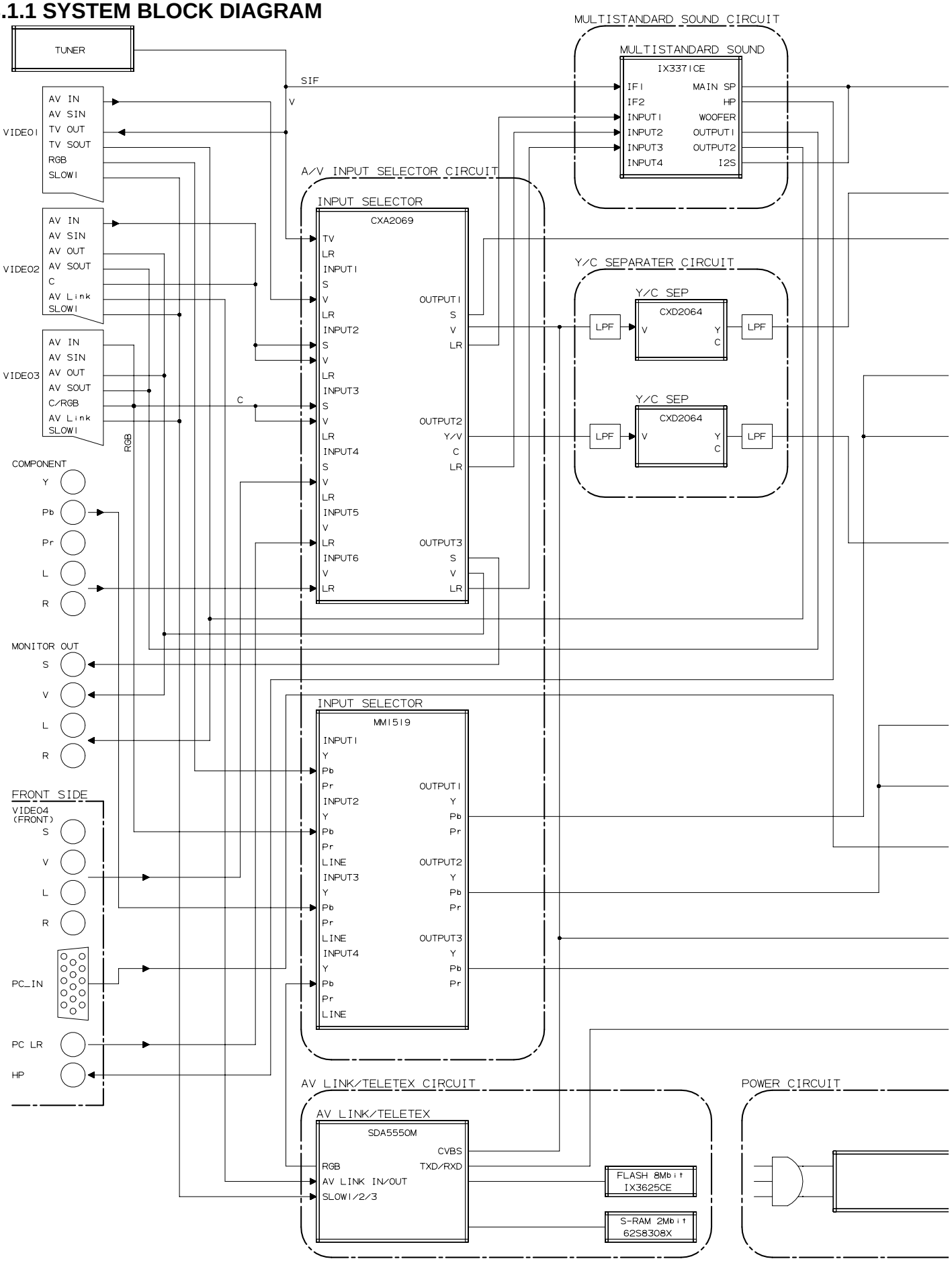
● EXTERIOR SECTION PARTS LIST

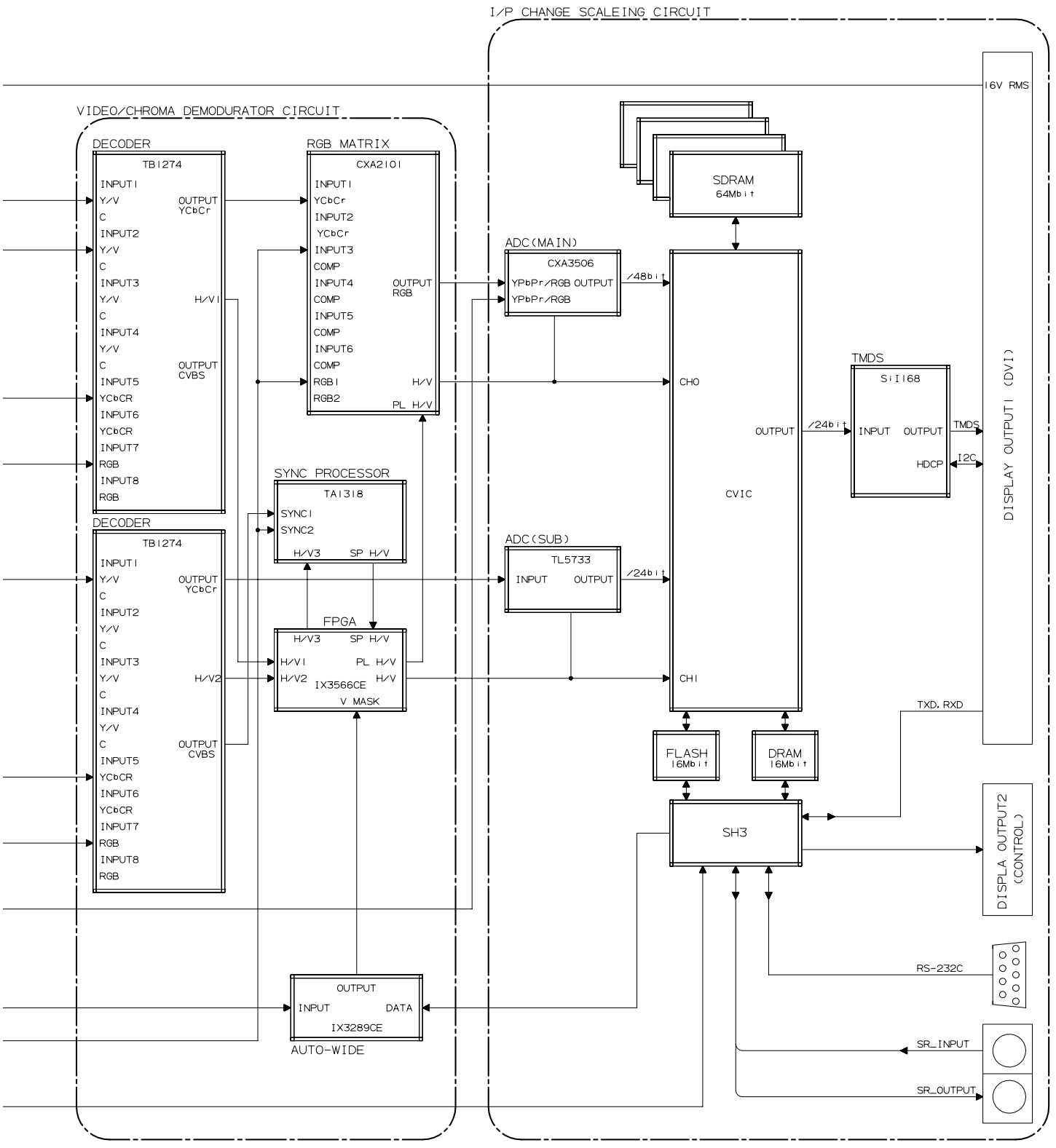
Mark	No.	Description	Part No.
NSP	1	Bottom Cabinet Assy.	• • • • • •
NSP	1-1	Bottom Cabinet	• • • • • •
	1-2	Indicator	HINDP5955CESA
NSP	1-3	Fixing Metal	• • • • • •
	1-4	Wire Holder	LHLDW1021GE00
	2	Front Panel Assy.	CWAKP1467CE01
NSP	2-1	Front Panel	• • • • • •
	2-2	LED Cover	GCOVA2015CEKA
	2-3	Door	GDORF3026CEKA
NSP	2-4	Pioneer Badge	• • • • • •
	2-5	Decoration Plate	HDECP0171CESA
	2-6	Control Indicator	HINDP5840CESA
	2-7	Door Indicator	HINDP5852CESA
	2-8	Power Button	JBTN-2073CEKA
NSP	2-9	Fixing Metal(Door)	• • • • • •
NSP	2-10	Fixing Metal	• • • • • •
NSP	2-11	Fixing Metal(Damper)	• • • • • •
	2-12	Screw	LX-HZ3111CEFN
	2-13	Spring	MSPRC0061CEFW
	2-14	Damper	PDMPF1009CEZZ
	2-15	Ratch	PKAI-0004GEZZ
	2-16	Screw	XBPSD20P05000
	2-17	Screw	XEBSD30P08000
NSP	3	Shield Assy	• • • • • •
NSP	3-1	Shield	• • • • • •
	3-2	Wire Holder	LHLDW1021GE00
	3-3	Heat Sink	PRDAR1567CEFW
	3-4	Spacer	PSPAH0720CEZZ
	4	Top Cabinet	GCABB3078CESA
	5	Leg	GLEGP9133CESA
NSP	6	Fixing Metal	• • • • • •
	7	Holder	LHLDW1009CEZZ
	8	Holder	LHLDW1060CEZZ
	9	Shaft	NSFTZ0134CEFW
NSP	10	Shield	• • • • • •
	11	Connecting Cord (Front-PC Boad)	QCNW-6074CEZZ
	12	Connecting Cord (SR-PC Boad)	QCNW-6078CEZZ
	13	Connecting Cord (main-PC Boad)	QCNW-6080CEZZ
	14	FFC (Main-AV)	QCNW-6081CEZZ
	15	FFC (Main-AV)	QCNW-6082CEZZ
	16	FFC (Main-PB_BD))	QCNW-6083CEZZ
	17	FFC (Main-PB_BD))	QCNW-6084CEZZ
NSP	18	Ground-Part (Cabi)	• • • • • •
NSP	19	Ground-Part (Tuner)	• • • • • •
	20	No. Label	TLABN0382CEZZ
	21	Screw	LX-BZ3434CEFN
	22	Screw	LX-LZ1005AEZZ
	23	Nut	LX-NZ3182CEFN
	24	Screw	XBBSN30P06000
	25	Screw	XBPSD30P06JS0
	26	Screw	XBPSN30P06000
	27	Screw	XBSSD30P06000
	28	Screw	XEBSF30P08000
	29	Screw	XJPSN30P08XS0
NSP	30	AC Inlet Angle	LANGK3000SNEZ
NSP	31	Screw	XBSSF30P06000
NSP	32	Screw	XBPBN40P06K00
NSP	33	Screw	LX-BZ1001SNEZ
NSP	34	Screw	XBPSD30P6R00
NSP	35	Cooling Sheet	PSPAZ0464CEKZ
NSP	36	Cooling Sheet	PSPAZ0465CEKZ
NSP	37	RCA Shield	PSLDM4715CEFW
	38	• • • • • •	
	39	• • • • • •	
	40	• • • • • •	
	41	MAIN UNIT	DUNTKA535FE01
	42	FRONT UNIT	DUNTKA536DE01
	43	AV UNIT	DUNTKA537DE01
	44	SR CONNECT UNIT	DUNTKA594DE01
	45	LED UNIT	DUNTKA649DE01
	46	PC I/F UNIT	CPCI-0056CE11
	47	POWER UNIT	RDENC0331CEZZ
	48	EMC UNIT	RDENCA006WJZZ

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

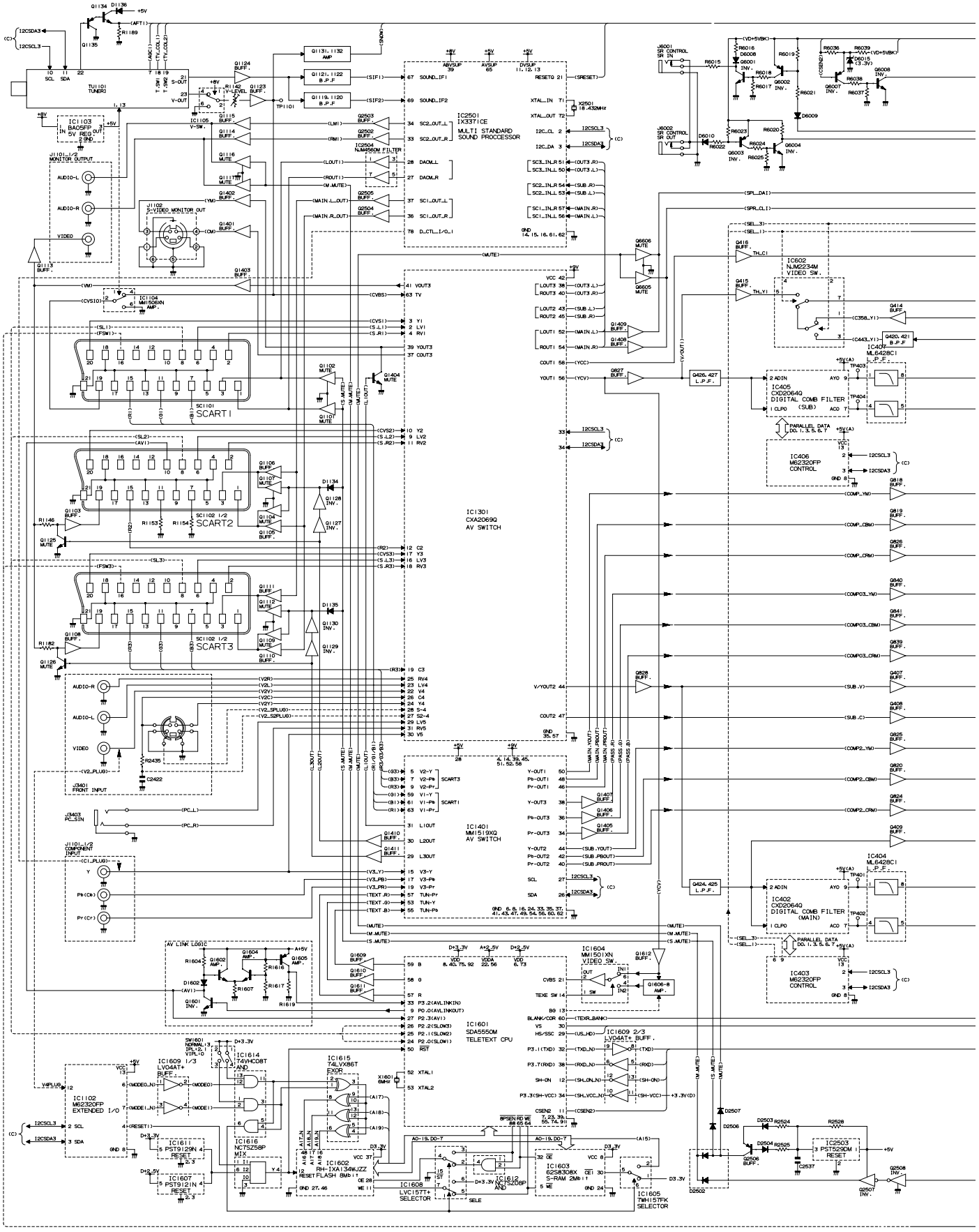
3.1 BLOCK DIAGRAM

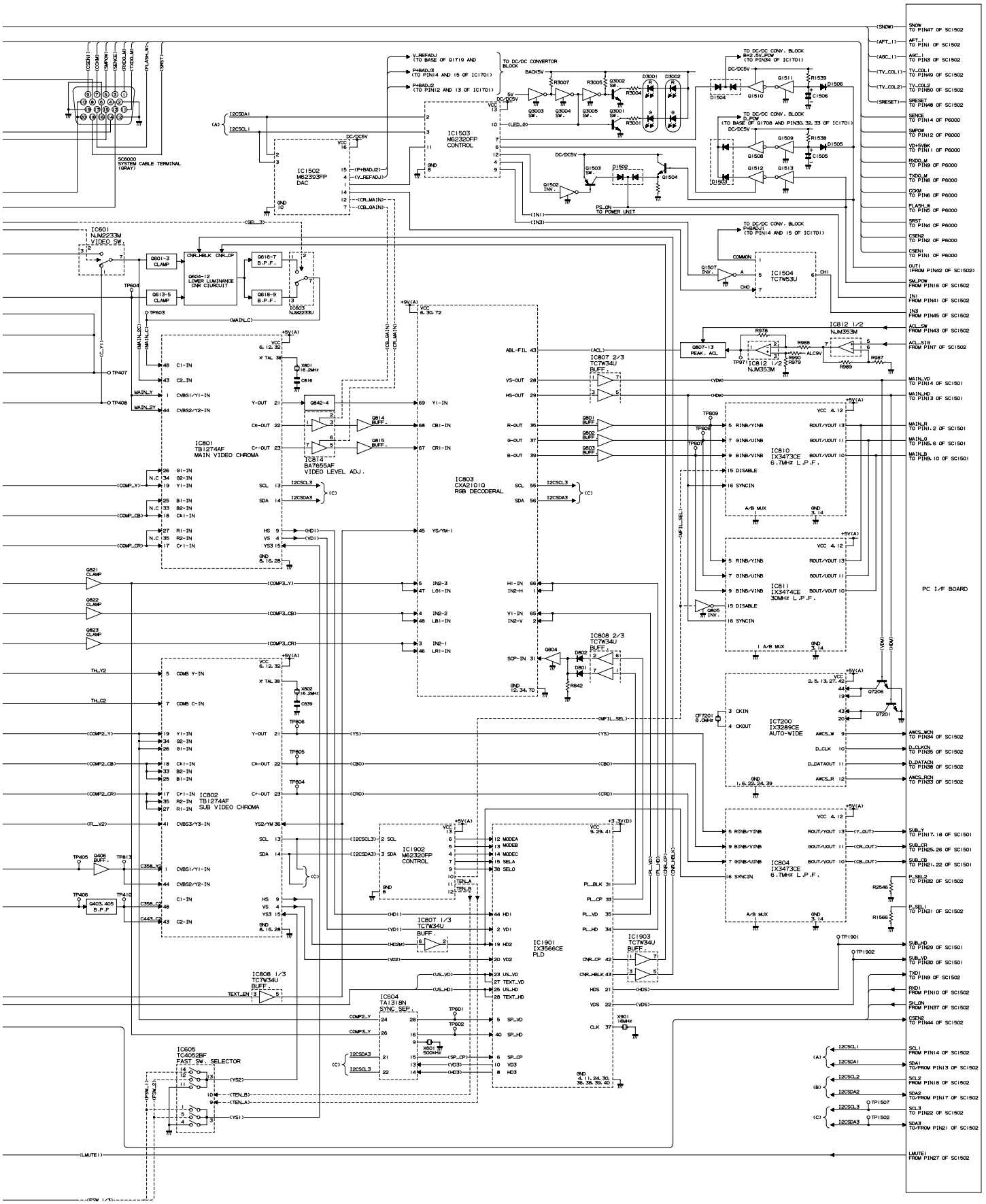
3.1.1 SYSTEM BLOCK DIAGRAM



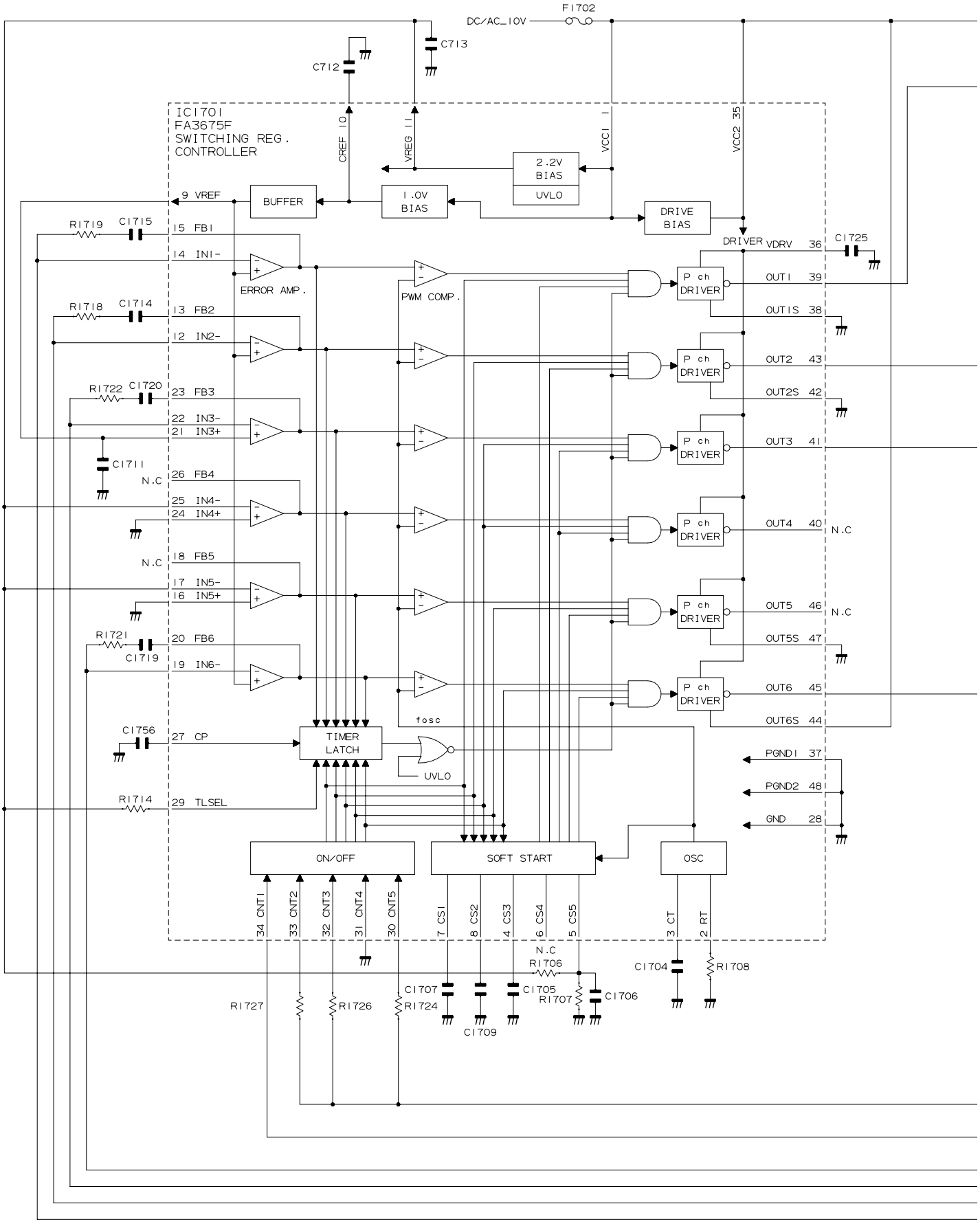

I/P CHANGE SCALEING CIRCUIT
16V RMS
VIDEO/CHROMA DEMODURATOR CIRCUIT
DECODER
TB1274
INPUT1
Y/V
C
INPUT2
Y/V
C
INPUT3
Y/V
C
INPUT4
Y/V
C
INPUT5
YCbCR
INPUT6
YCbCR
INPUT7
RGB
INPUT8
RGB
OUTPUT YCbCr
H/V1
OUTPUT CVBS
RGB MATRIX
CXA2101
INPUT1
YCbCr
INPUT2
YCbCr
INPUT3
COMP
INPUT4
COMP
INPUT5
COMP
INPUT6
COMP
RGB1
RGB2
OUTPUT RGB
H/V
PL H/V
SDRAM
64Mbit
ADC(MAIN)
CXA3506
YPbPr/RGB OUTPUT
YPbPr/RGB
/48bit
CH0
OUTPUT
/24bit
TMDS
Si1168
INPUT
OUTPUT
TMDS
HDCP
I2C
DISPLAY OUTPUT1 (DVI)
CVIC
SYNC PROCESSOR
TA1318
SYNC1
SYNC2
H/V3
SP H/V
DECODER
TB1274
INPUT1
Y/V
C
INPUT2
Y/V
C
INPUT3
Y/V
C
INPUT4
Y/V
C
INPUT5
YCbCR
INPUT6
YCbCR
INPUT7
RGB
INPUT8
RGB
OUTPUT YCbCr
H/V2
OUTPUT CVBS
ADC(SUB)
TL5733
INPUT
OUTPUT
/24bit
CH1
FPGA
H/V3
SP H/V
H/V1
PL H/V
H/V2
H/V
IX3566CE
V MASK
TXD, RXD
FLASH
16Mbit
DRAM
16Mbit
SH3
DISPLA OUTPUT2
(CONTROL)
RS-232C
OUTPUT
INPUT
DATA
IX3289CE
AUTO-WIDE
SR_INPUT
SR_OUTPUT
POWER UNIT
PS ON
M5V
M10V
DC/DC CONVERTOR
P+BADJ1-4
+2.5VCV
+3.3V(D)
+5V(A)
+5V(D)
+8V
+9V(A)
+5V(A)R
-5V(A)
+35V
+12V(A)

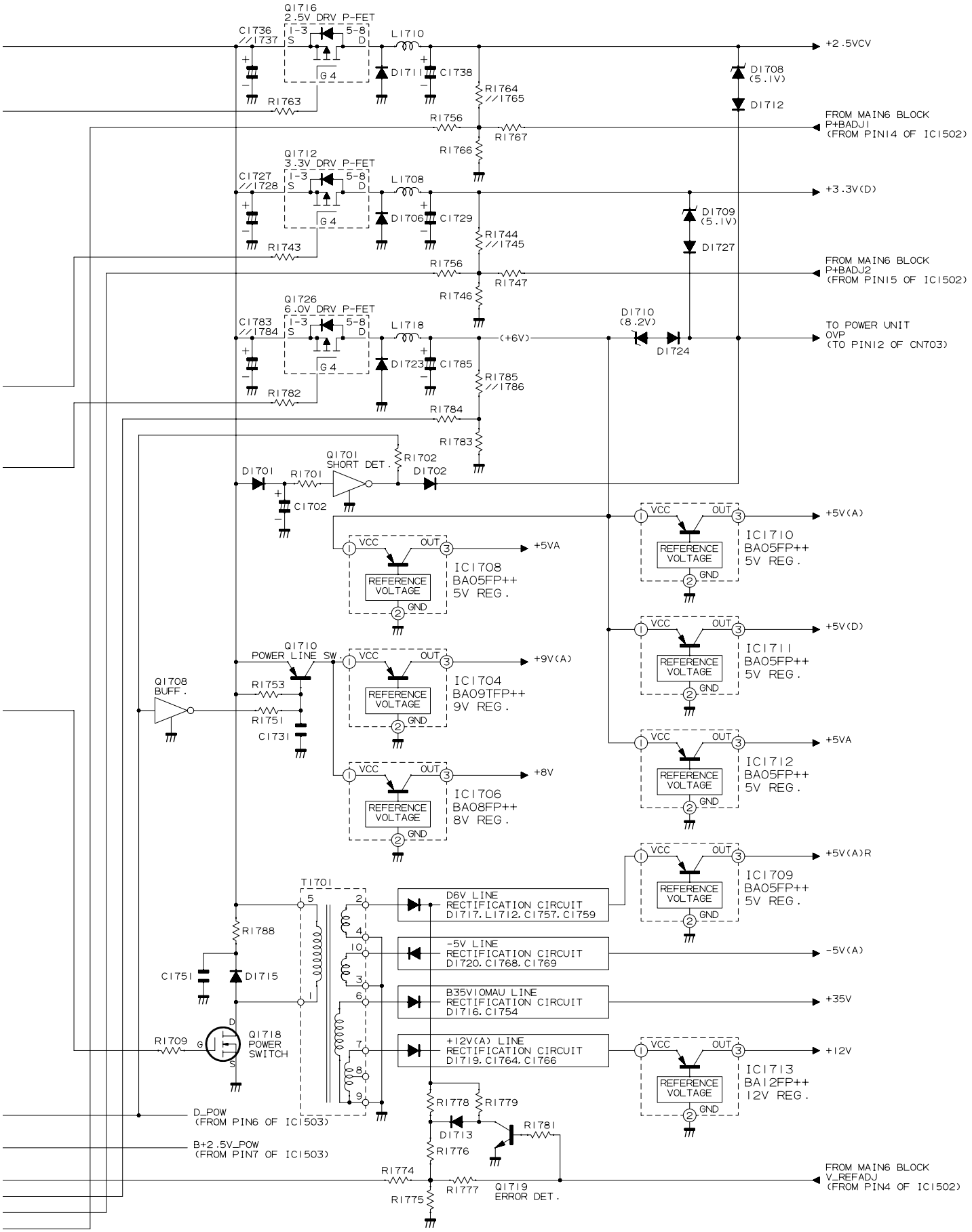
3.1.2 SIGNAL FLOW BLOCK DIAGRAM



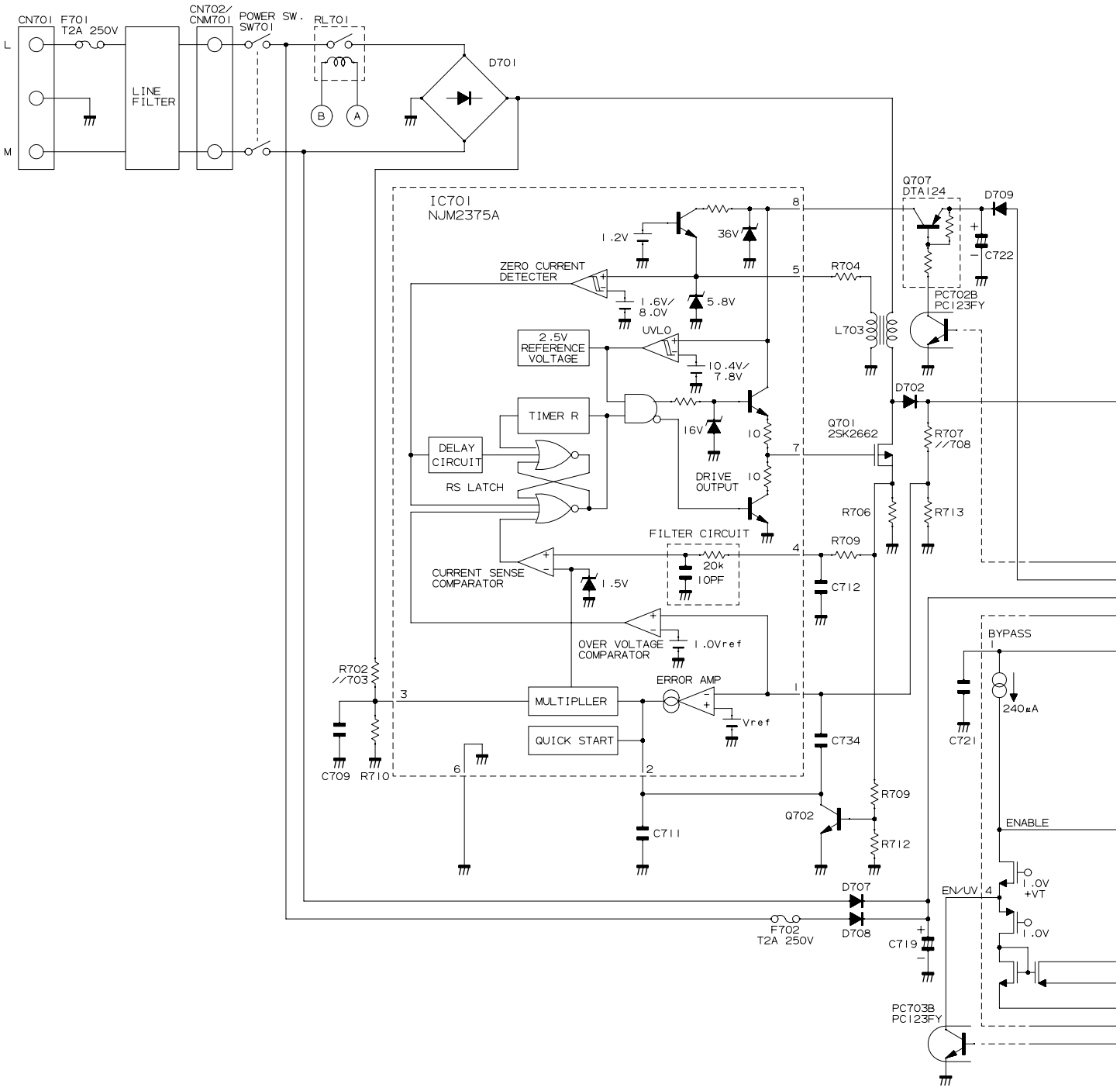

SC6000
SYSTEM CABLE TERMINAL
(GRAY)
IC1502
M62393FP
DAC
IC1503
M62320FP
CONTROL
IC601
NJM2233M
VIDEO SW.
IC603
NJM2233M
IC801
TB1274AF
MAIN VIDEO CHROMA
IC802
TB1274AF
SUB VIDEO CHROMA
IC803
CXA2101Q
RGB DECODERAL
IC804
BA7655AF
VIDEO LEVEL ADJ.
IC1902
M62320FP
CONTROL
IC1901
IX3566CE
PLD
IC1903
TC7W34U
BUFF.
IC1504
TC7W53U
IC812 1/2
NJM353M
IC810
IX3473CE
6.7MHz L.P.F.
IC811
IX3474CE
30MHz L.P.F.
IC7200
IX3289CE
AUTO-WIDE
IC604
TA1318N
SYNC. SEP.
IC605
TC4052BF
FAST SW. SELECTOR
PC I/F BOARD

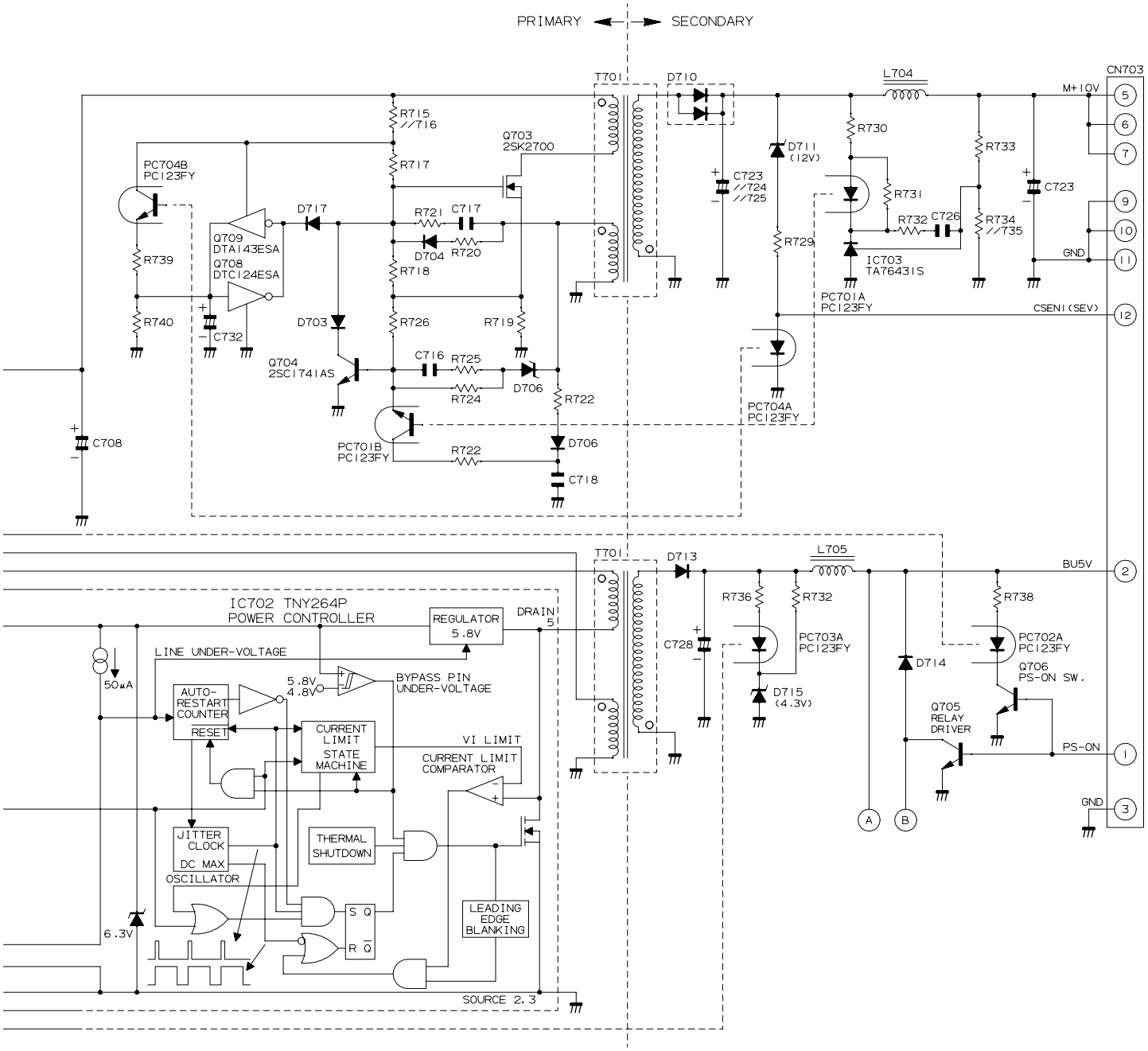
3.1.3 DC/DC CONVERTER BLOCK DIAGRAM




Q1716
2.5V DRV P-FET
C1736
//1737
1-3 S
5-8 D
G
L1710
D1711
C1738
R1763
R1764
//1765
R1756
R1767
R1766
+2.5VCV
D1708
(5.1V)
D1712
FROM MAIN6 BLOCK
P+BADJ1
(FROM PIN14 OF IC1502)
Q1712
3.3V DRV P-FET
C1727
//1728
L1708
D1706
C1729
R1743
R1744
//1745
R1747
R1746
+3.3V(D)
D1709
(5.1V)
D1727
FROM MAIN6 BLOCK
P+BADJ2
(FROM PIN15 OF IC1502)
Q1726
6.0V DRV P-FET
C1783
//1784
L1718
D1723
C1785
R1782
R1785
//1786
R1784
R1783
(+6V)
D1710
(8.2V)
D1724
TO POWER UNIT
OVP
(TO PIN12 OF CN703)
Q1701
SHORT DET.
R1702
D1701
R1701
D1702
C1702
VCC
OUT
GND
REFERENCE VOLTAGE
IC1708
BA05FP++
5V REG.
+5VA
IC1710
BA05FP++
5V REG.
+5V(A)
IC1711
BA05FP++
5V REG.
+5V(D)
Q1710
POWER LINE SW.
Q1708
BUFF.
R1753
R1751
C1731
IC1704
BA09TFP++
9V REG.
+9V(A)
IC1706
BA08FP++
8V REG.
+8V
IC1712
BA05FP++
5V REG.
+5VA
T1701
D6V LINE
RECTIFICATION CIRCUIT
D1717, L1712, C1757, C1759
IC1709
BA05FP++
5V REG.
+5V(A)R
R1788
C1751
D1715
-5V LINE
RECTIFICATION CIRCUIT
D1720, C1768, C1769
-5V(A)
B35V10MAU LINE
RECTIFICATION CIRCUIT
D1716, C1754
+35V
R1709
Q1718
POWER
SWITCH
+12V(A) LINE
RECTIFICATION CIRCUIT
D1719, C1764, C1766
IC1713
BA12FP++
12V REG.
+12V
R1778
R1779
R1781
D1713
R1776
R1774
R1775
R1777
Q1719
ERROR DET.
D_POW
(FROM PIN6 OF IC1503)
B+2.5V_POW
(FROM PIN7 OF IC1503)
FROM MAIN6 BLOCK
V_REFADJ
(FROM PIN4 OF IC1502)

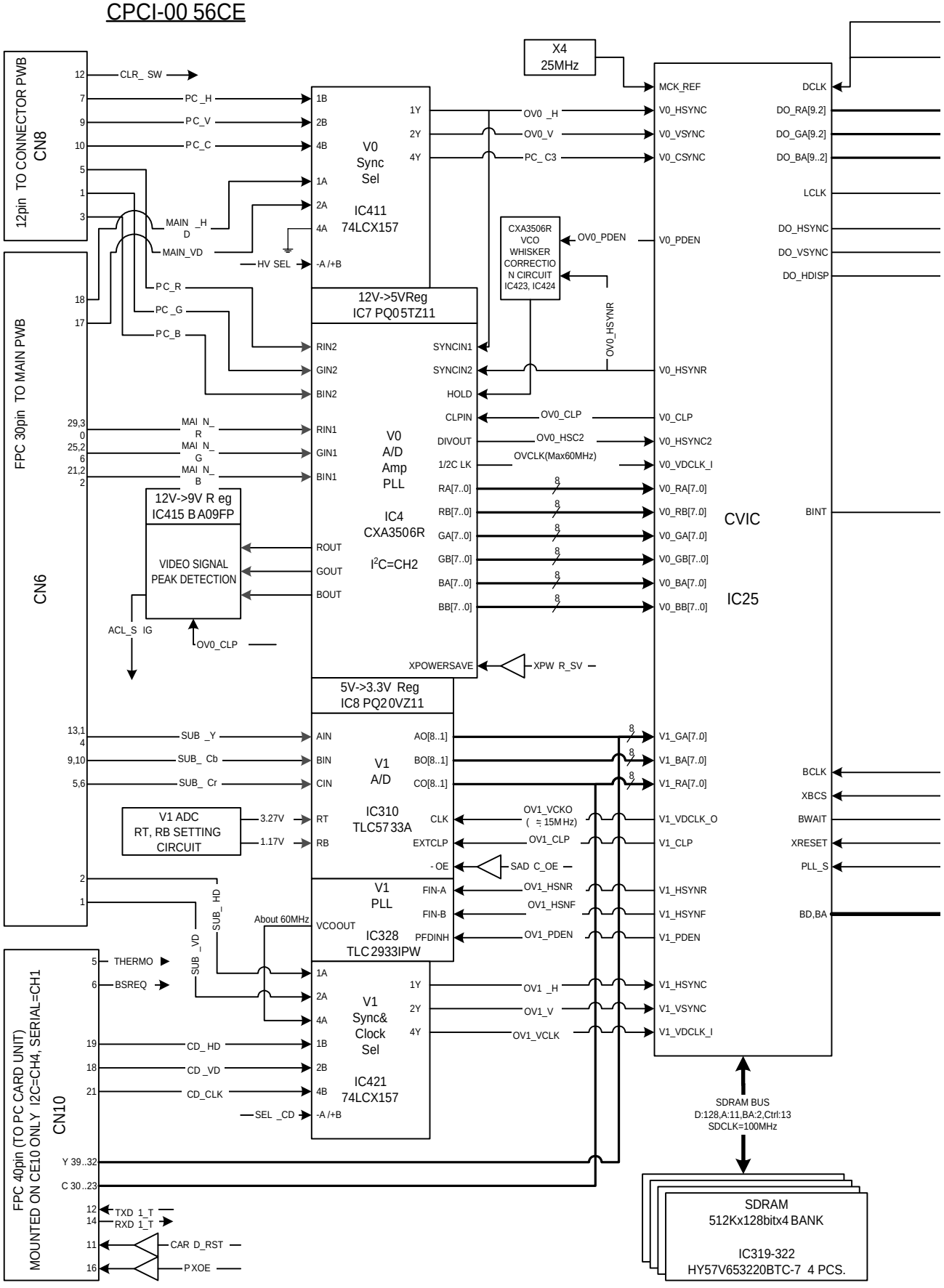
3.1.4 POWER BLOCK DIAGRAM

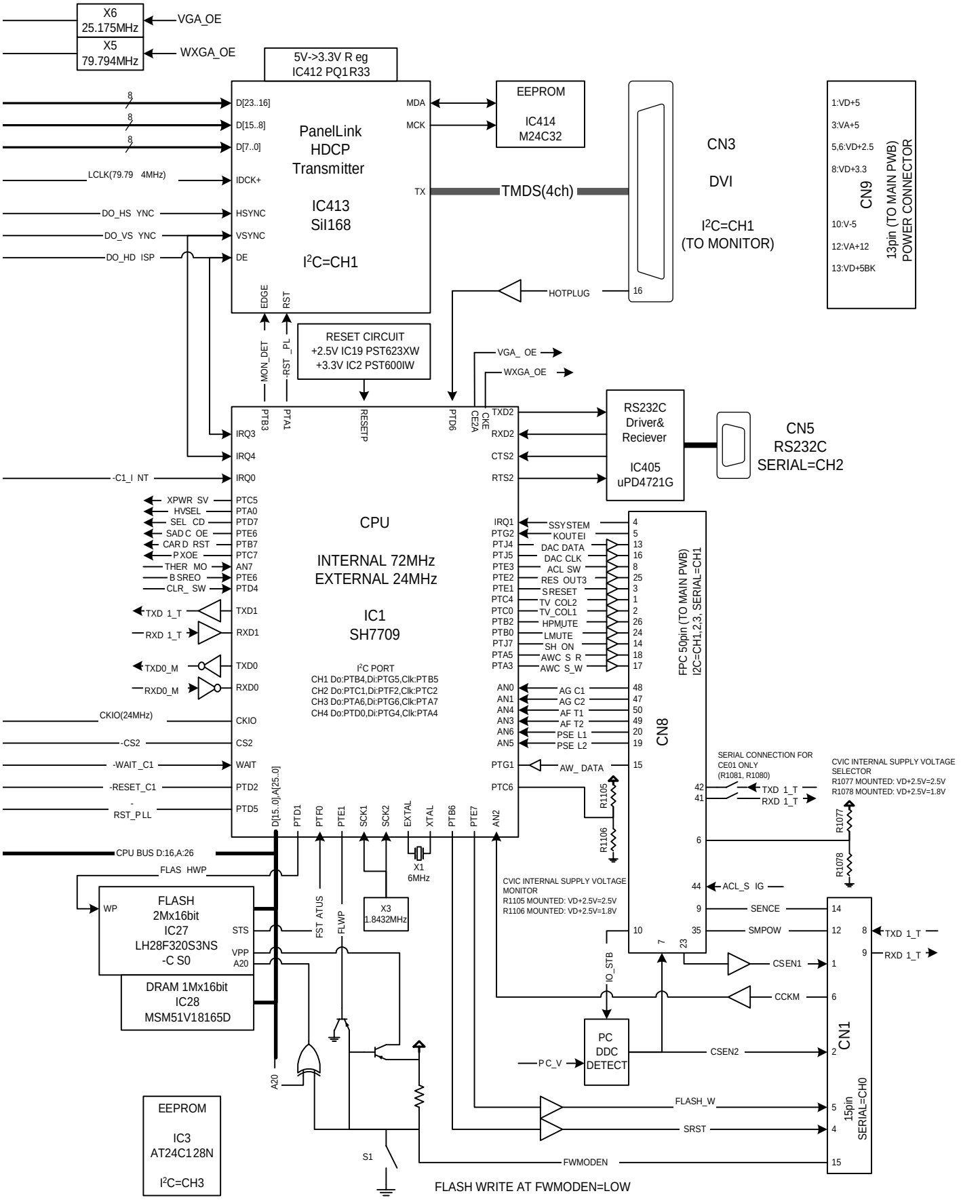



PRIMARY
SECONDARY
T701
D710
L704
CN703
M+10V
R715 //716
Q703 2SK2700
R717
PC704B PC123FY
D711 (12V)
C723 //724 //725
R730
R733
C723
R731
R732
C726
R734 //735
R739
Q709 DTA143ESA
Q708 DTC124ESA
D717
R721
C717
D704
R720
R718
R729
IC703 TA76431S
GND
PC701A PC123FY
CSENI(SEV)
R740
C732
D703
R726
R719
C716
R725
Q704 2SC1741AS
D706
R724
R722
PC704A PC123FY
C708
PC701B PC123FY
R722
D706
C718
T701
D713
L705
BU5V
IC702 TNY264P
POWER CONTROLLER
REGULATOR 5.8V
DRAIN 5
R736
R732
C728
PC703A PC123FY
D715 (4.3V)
D714
R738
PC702A PC123FY
Q706 PS-ON SW.
Q705 RELAY DRIVER
PS-ON
GND
LINE UNDER-VOLTAGE
50µA
5.8V
4.8V
BYPASS PIN UNDER-VOLTAGE
AUTO-RESTART COUNTER
RESET
CURRENT LIMIT STATE MACHINE
VI LIMIT
CURRENT LIMIT COMPARATOR
JITTER CLOCK
DC MAX
OSCILLATOR
THERMAL SHUTDOWN
LEADING EDGE BLANKING
S Q
R Q
6.3V
SOURCE 2.3
A
B

3.1.5 PC I/F BLOCK DIAGRAM

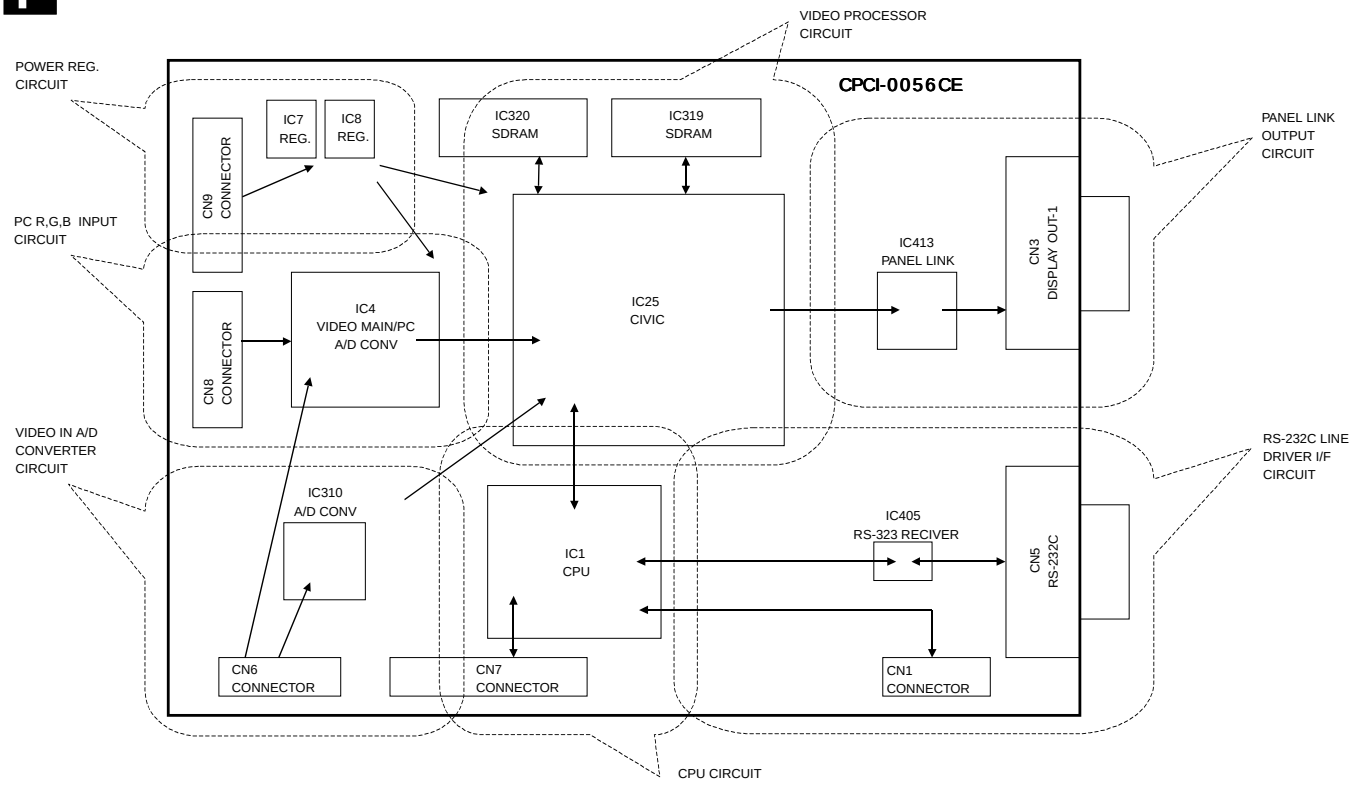
CPCI-00 56CE



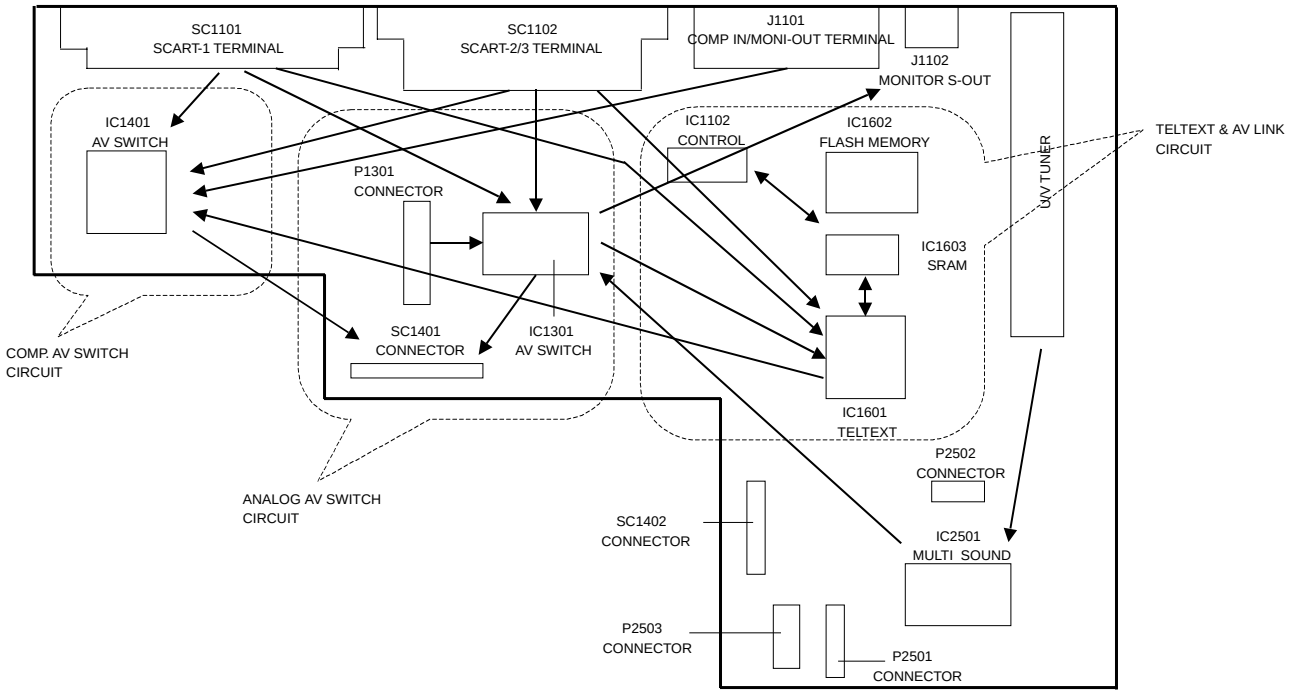

X6
25.175MHz
VGA_OE
X5
79.794MHz
WXGA_OE
5V->3.3V R eg
IC412 PQ1R33
PanelLink
HDCP
Transmitter
IC413
Sil168
I2C=CH1
D[23..16]
D[15..8]
D[7..0]
LCLK(79.79 4MHz)
IDCK+
DO_HS YNC
DO_VS YNC
DO_HD ISP
HSYNC
VSYNC
DE
MDA
MCK
TX
EEPROM
IC414
M24C32
TMDS(4ch)
CN3
DVI
I2C=CH1
(TO MONITOR)
HOTPLUG
16
CN9
13pin (TO MAIN PWB)
POWER CONNECTOR
1:VD+5
3:VA+5
5,6:VD+2.5
8:VD+3.3
10:V-5
12:VA+12
13:VD+5BK
EDGE
RST
MON_DET
-RST_PL
RESET CIRCUIT
+2.5V IC19 PST623XW
+3.3V IC2 PST600IW
VGA_ OE
WXGA_OE
RESETP
RS232C
Driver&
Reciever
IC405
uPD4721G
CN5
RS232C
SERIAL=CH2
TXD2
RXD2
CTS2
RTS2
IRQ3
IRQ4
IRQ0
-C1_I NT
XPWR SV
HVSEL
SEL CD
SAD C OE
CAR D RST
P XOE
THER MO
B SREO
CLR_ SW
CPU
INTERNAL 72MHz
EXTERNAL 24MHz
IC1
SH7709
I2C PORT
CH1 Do:PTB4,Di:PTG5,Clk:PTB5
CH2 Do:PTC1,Di:PTF2,Clk:PTC2
CH3 Do:PTA6,Di:PTG6,Clk:PTA7
CH4 Do:PTD0,Di:PTG4,Clk:PTA4
TXD1
RXD1
TXD0
RXD0
TXD 1_T
RXD 1_T
TXD0_M
RXD0_M
CKIO(24MHz)
CKIO
-CS2
CS2
-WAIT_C1
WAIT
-RESET_C1
PTD2
RST_P LL
PTD5
SSYSTEM
KOUTEI
DAC DATA
DAC CLK
ACL SW
RES OUT3
SRESET
TV COL2
TV_COL1
HPMUTE
LMUTE
SH ON
AWC S R
AWC S_W
AG C1
AG C2
AF T1
AF T2
PSE L1
PSE L2
AW_ DATA
CN8
FPC 50pin (TO MAIN PWB)
I2C=CH1,2,3, SERIAL=CH1
SERIAL CONNECTION FOR
CE01 ONLY
(R1081, R1080)
CVIC INTERNAL SUPPLY VOLTAGE
SELECTOR
R1077 MOUNTED: VD+2.5V=2.5V
R1078 MOUNTED: VD+2.5V=1.8V
R1077
R1078
R1105
R1106
CVIC INTERNAL SUPPLY VOLTAGE
MONITOR
R1105 MOUNTED: VD+2.5V=2.5V
R1106 MOUNTED: VD+2.5V=1.8V
ACL_S IG
SENCE
SMPOW
CSEN1
CCKM
CSEN2
IO_STB
PC
DDC
DETECT
P C_V
CN1
15pin
SERIAL=CH0
FLASH_W
SRST
FWMODEN
CPU BUS D:16,A:26
FLAS HWP
FLASH
2Mx16bit
IC27
LH28F320S3NS
-C S0
WP
STS
VPP
A20
DRAM 1Mx16bit
IC28
MSM51V18165D
FST ATUS
FLWP
X3
1.8432MHz
X1
6MHz
EEPROM
IC3
AT24C128N
I2C=CH3
S1
FLASH WRITE AT FWMODEN=LOW

3.1.6 PRINTED WIRING BOARD BLOCK DIAGRAM

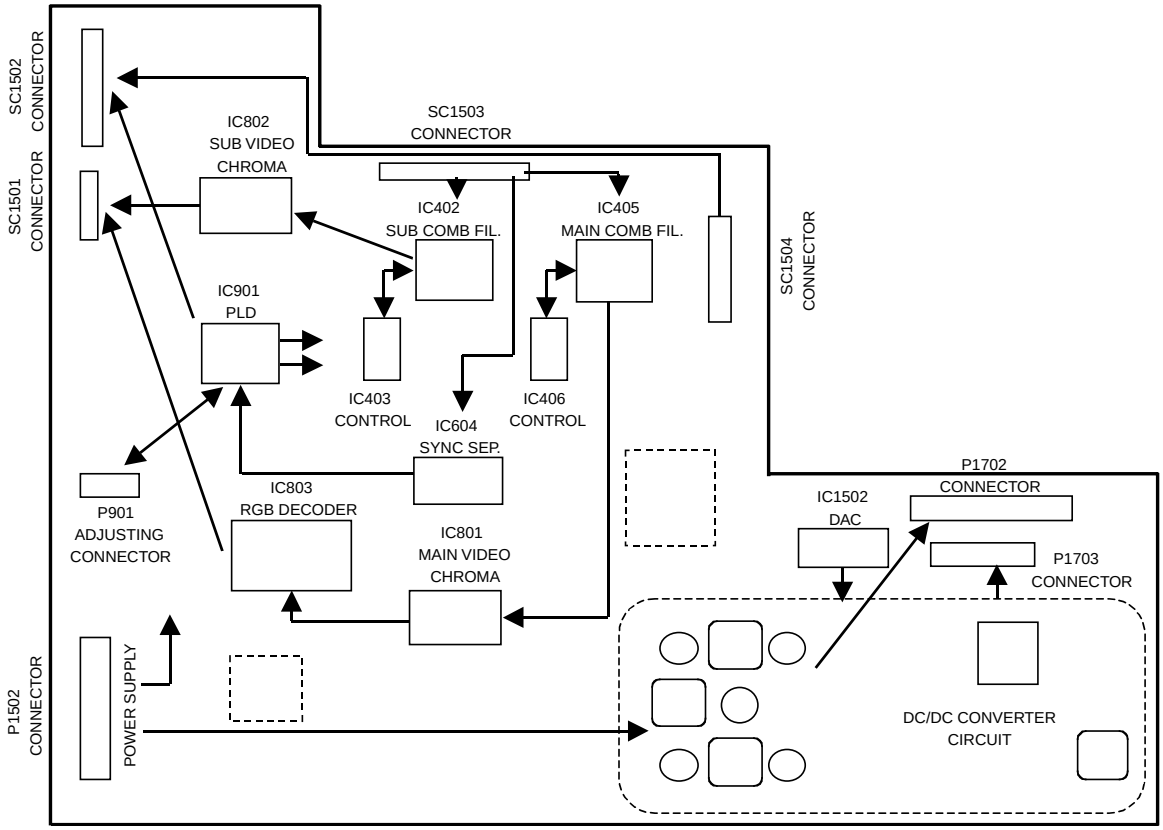
F PC I/F UNIT



C AV UNIT



A MAIN UNIT


SC1502 CONNECTOR
SC1501 CONNECTOR
IC802 SUB VIDEO CHROMA
SC1503 CONNECTOR
IC402 SUB COMB FIL.
IC405 MAIN COMB FIL.
SC1504 CONNECTOR
IC901 PLD
IC403 CONTROL
IC604 SYNC SEP.
IC406 CONTROL
P901 ADJUSTING CONNECTOR
IC803 RGB DECODER
IC801 MAIN VIDEO CHROMA
IC1502 DAC
P1702 CONNECTOR
P1703 CONNECTOR
P1502 CONNECTOR
POWER SUPPLY
DC/DC CONVERTER CIRCUIT

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the colour bar signal of colour bar generator for service is input to get the normal screen. When the audio is minimized, the voltage value is measured with the 20 kΩ/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the colour density, lightness and colour hue are set to the center position, and the signal of colour bar generator for service is observed to get waveform.
2. ◯▶ indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid Ⓦ: Cement
   Ⓢ: Oxide Film Ⓣ: Special
   Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are mF, unless otherwise noted. (P=pF=mmF).
2. All capacitors are Ceramic type, unless otherwise noted.
   (ML) : Mylar (TA) : Tantalum
   (PF) : Polypro Film (ST) : Styrol

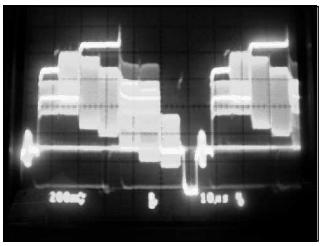
CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

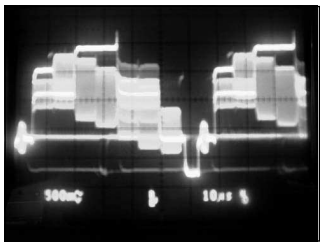
WAVEFORMS

①



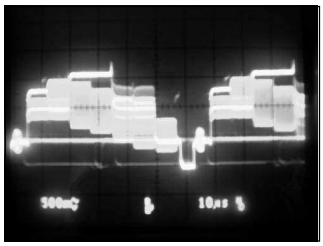
IC1301 63-pin
V: 200mV/div H: 10µsec/div

②



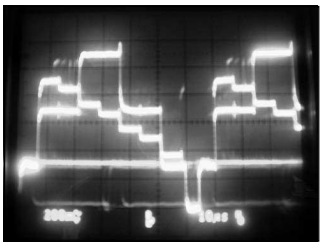
IC1301 56-pin
V: 500mV/div H: 10µsec/div

③



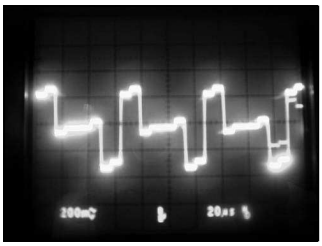
IC405 1, 2-pin
V: 500mV/div H: 10µsec/div

④



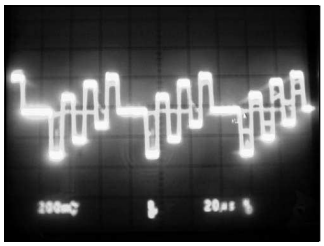
IC801 1-pin
V: 200mV/div H: 10µsec/div

⑤



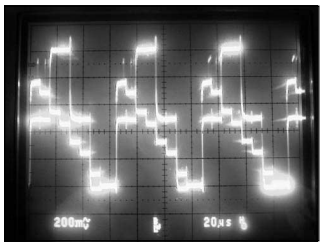
IC803 TP801
V: 200mV/div H: 20µsec/div

⑥



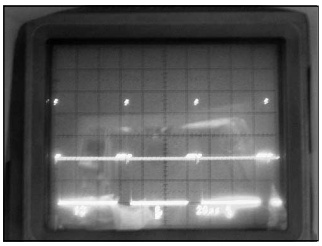
IC803 TP802
V: 200mV/div H: 20µsec/div

⑦



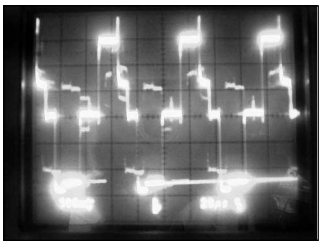
IC803 TP803
V: 200mV/div H: 20µsec/div

⑧



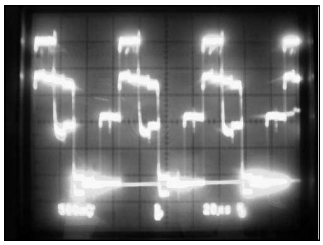
IC803 31-pin
V: 1V/div H: 20µsec/div

⑨



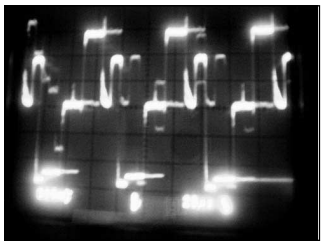
IC810 13-pin
V: 500mV/div H: 20µsec/div

⑩



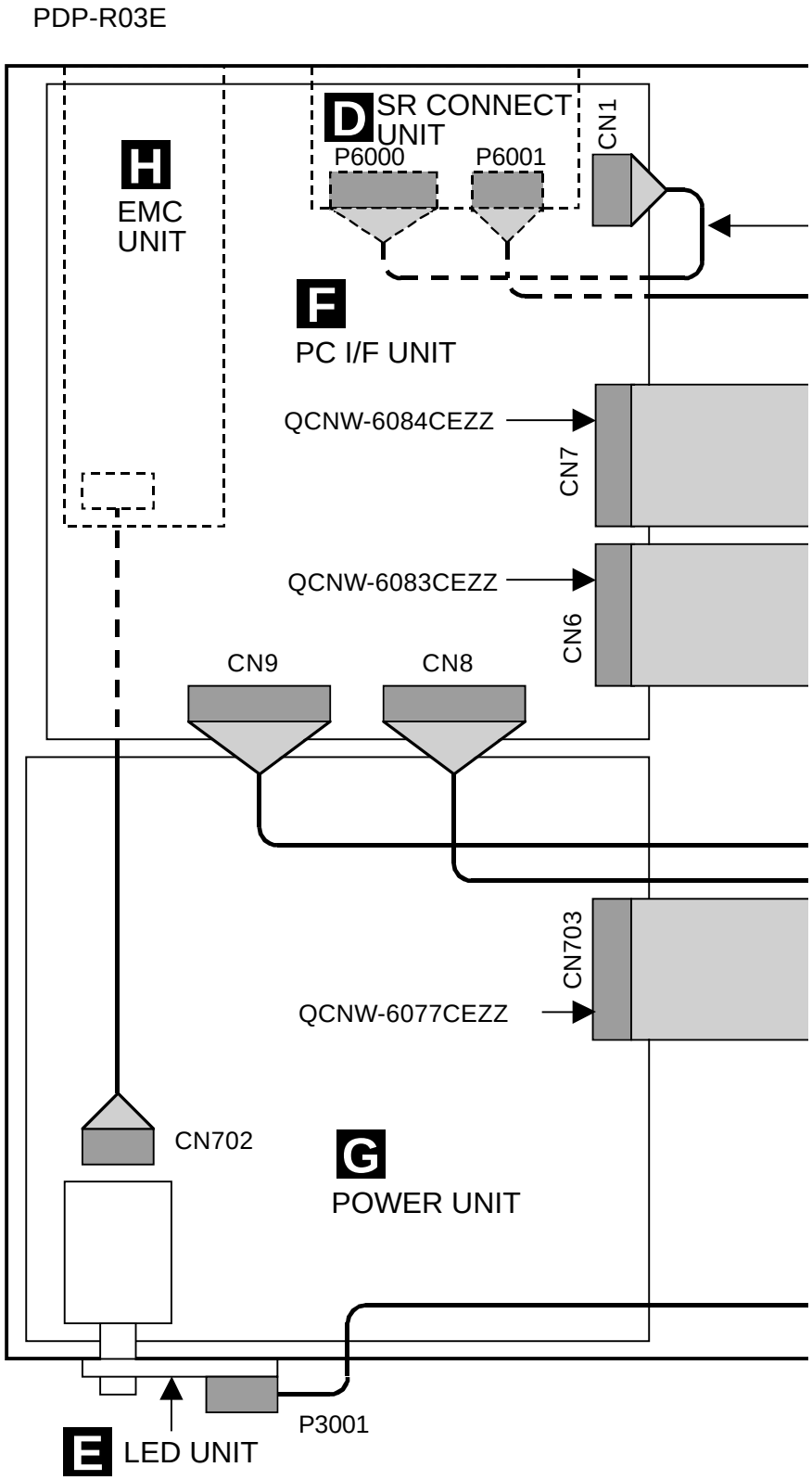
IC810 11-pin
V: 500mV/div H: 20µsec/div

⑪

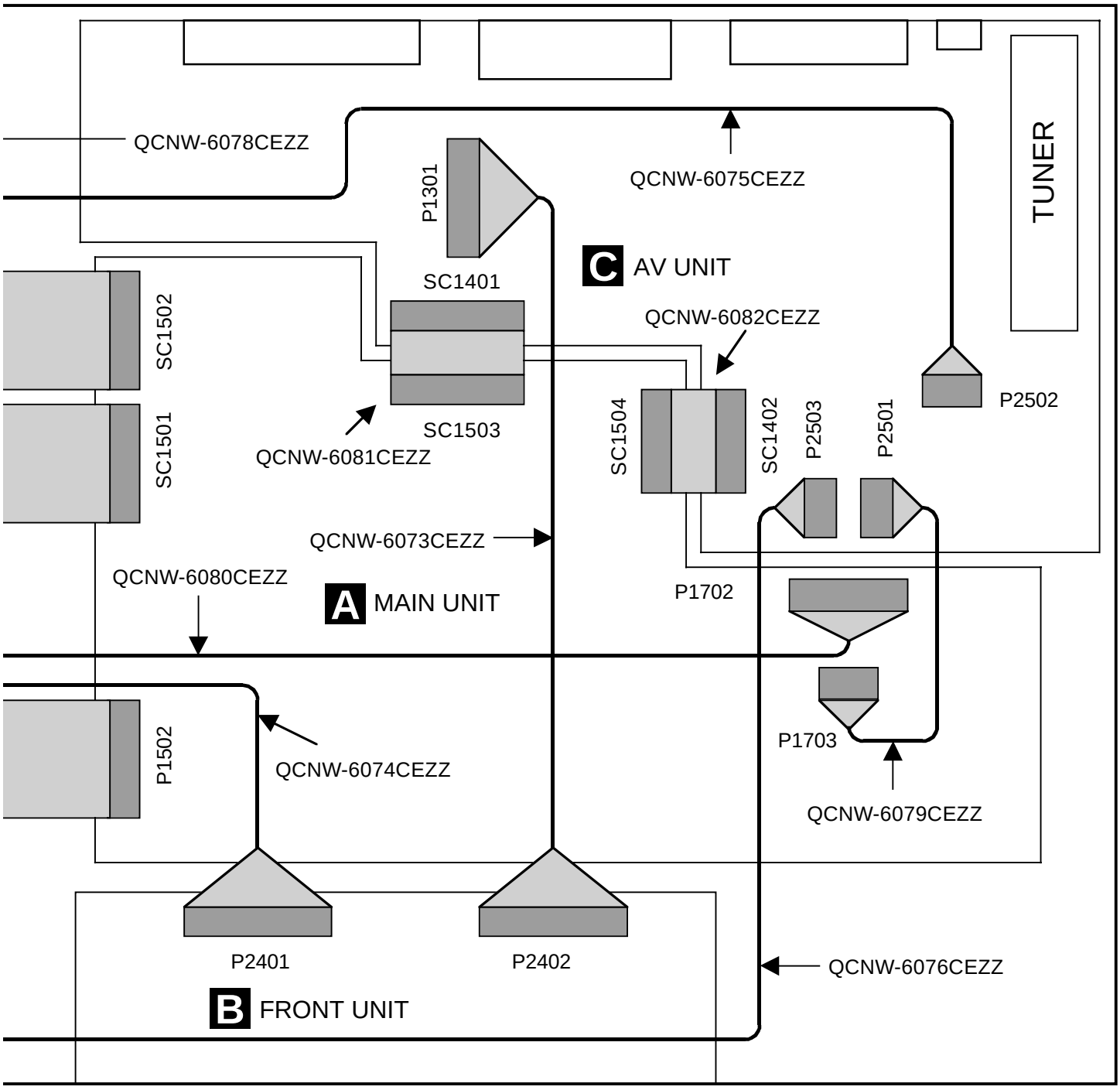


IC810 10-pin
V: 500mV/div H: 20µsec/div

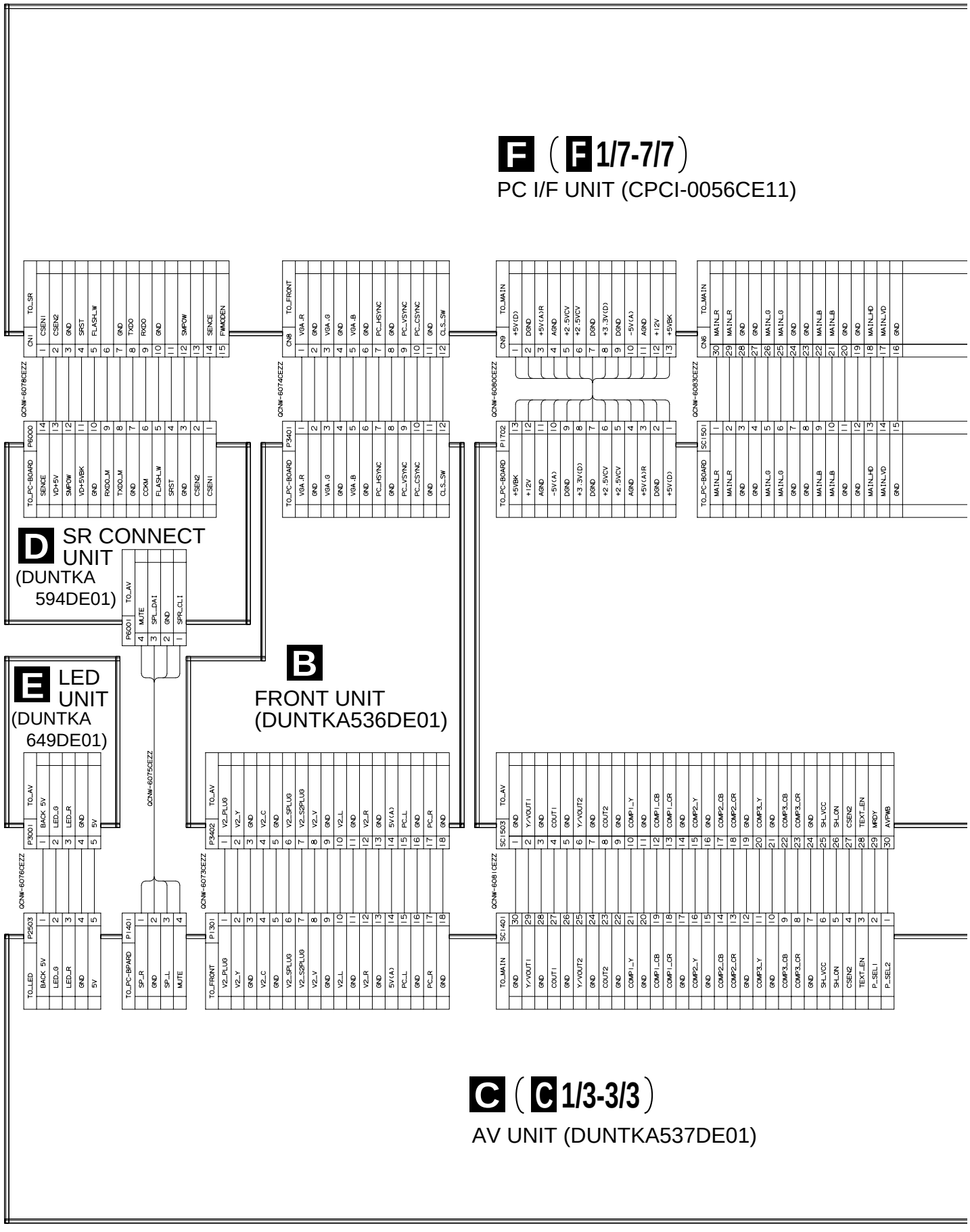
3.2 OVERALL WIRING DIAGRAM (1/2)

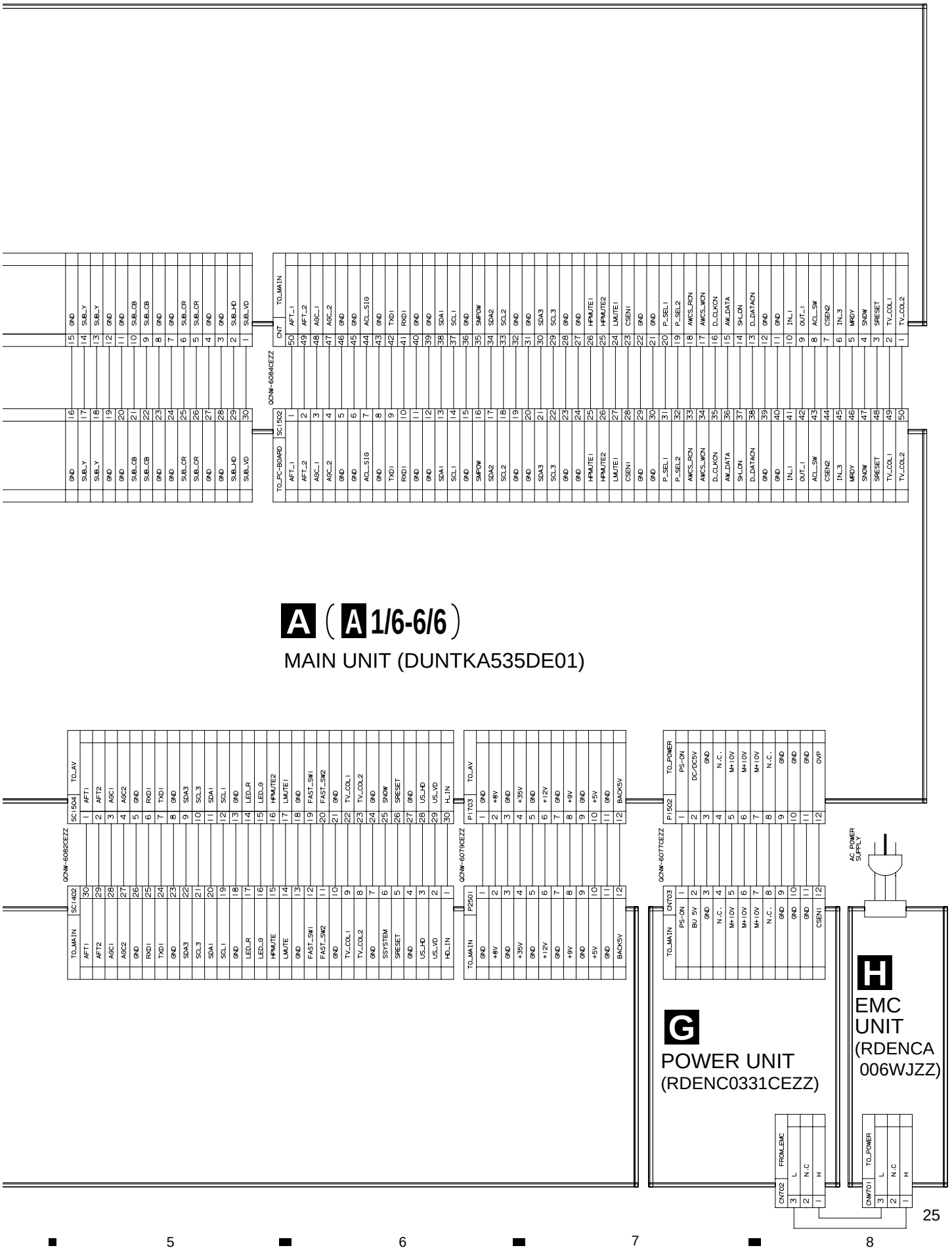


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.3 OVERALL WIRING DIAGRAM (2/2)

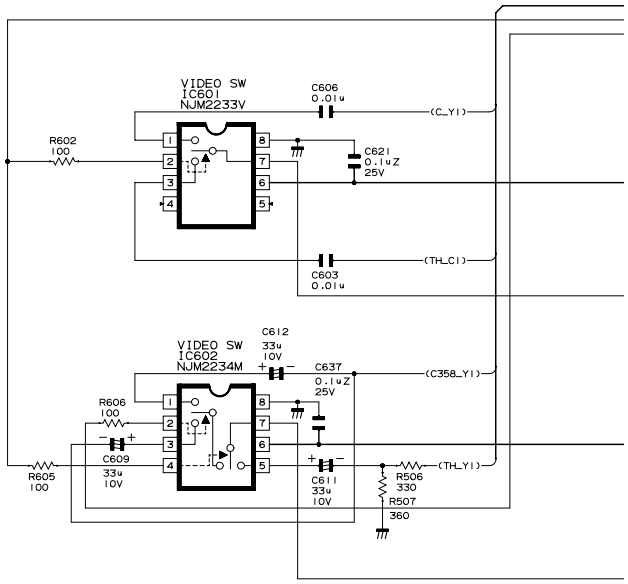



A
B
C
D
TO_MAIN
TO_PC-BOARD
QCNW-6084CEZZ
TO_AV
QCNW-6082CEZZ
QCNW-6079CEZZ
TO_POWER
QCNW-6077CEZZ
AC POWER SUPPLY
A (A 1/6-6/6)
MAIN UNIT (DUNTKA535DE01)
G
POWER UNIT
(RDENC0331CEZZ)
H
EMC
UNIT
(RDENCA
006WJZZ)
FROM_EMC
TO_POWER

3.4 MAIN UNIT (1/6)

A 1/6 MAIN UNIT
(DUNTKA535DE01)

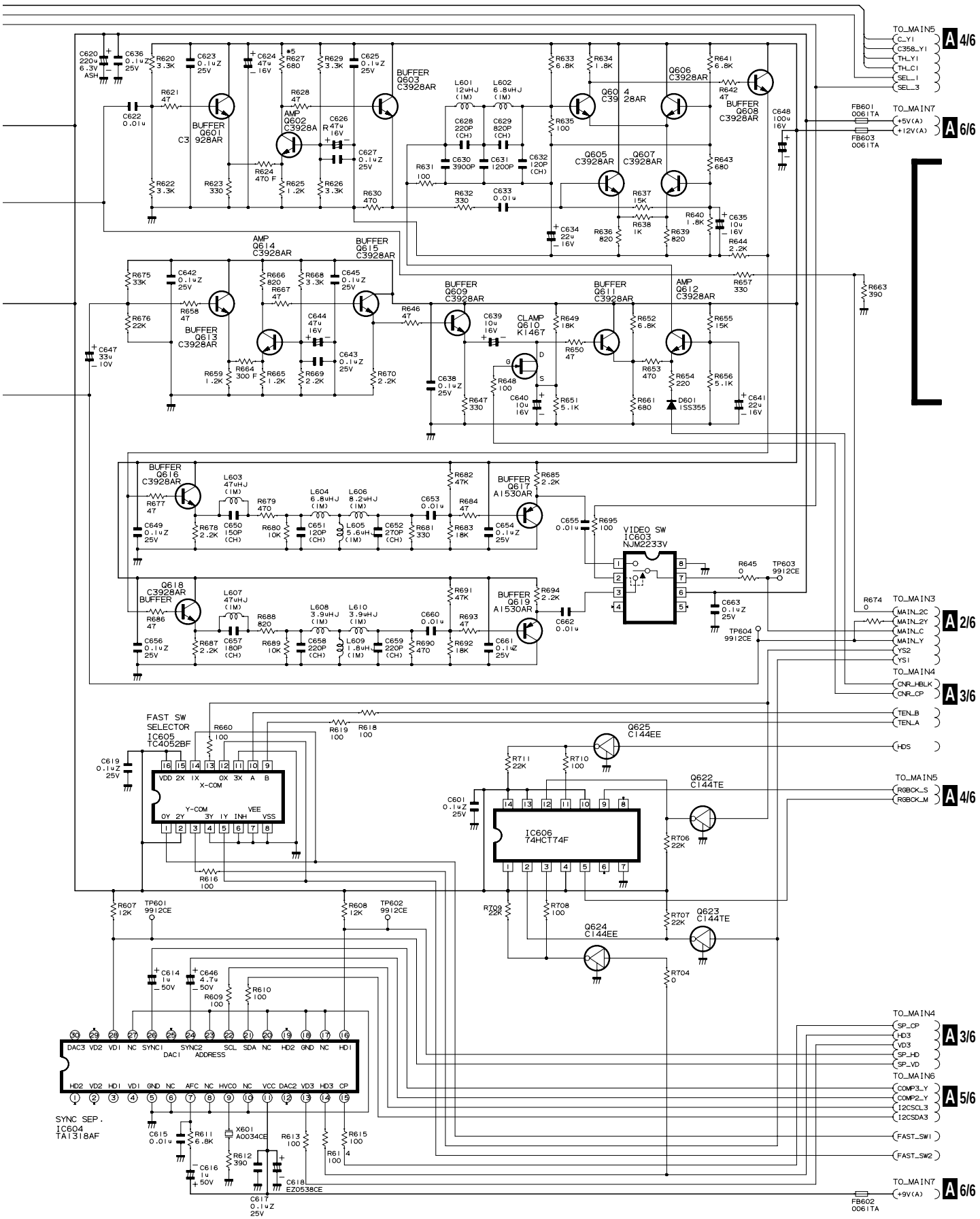
PZ50MP2E



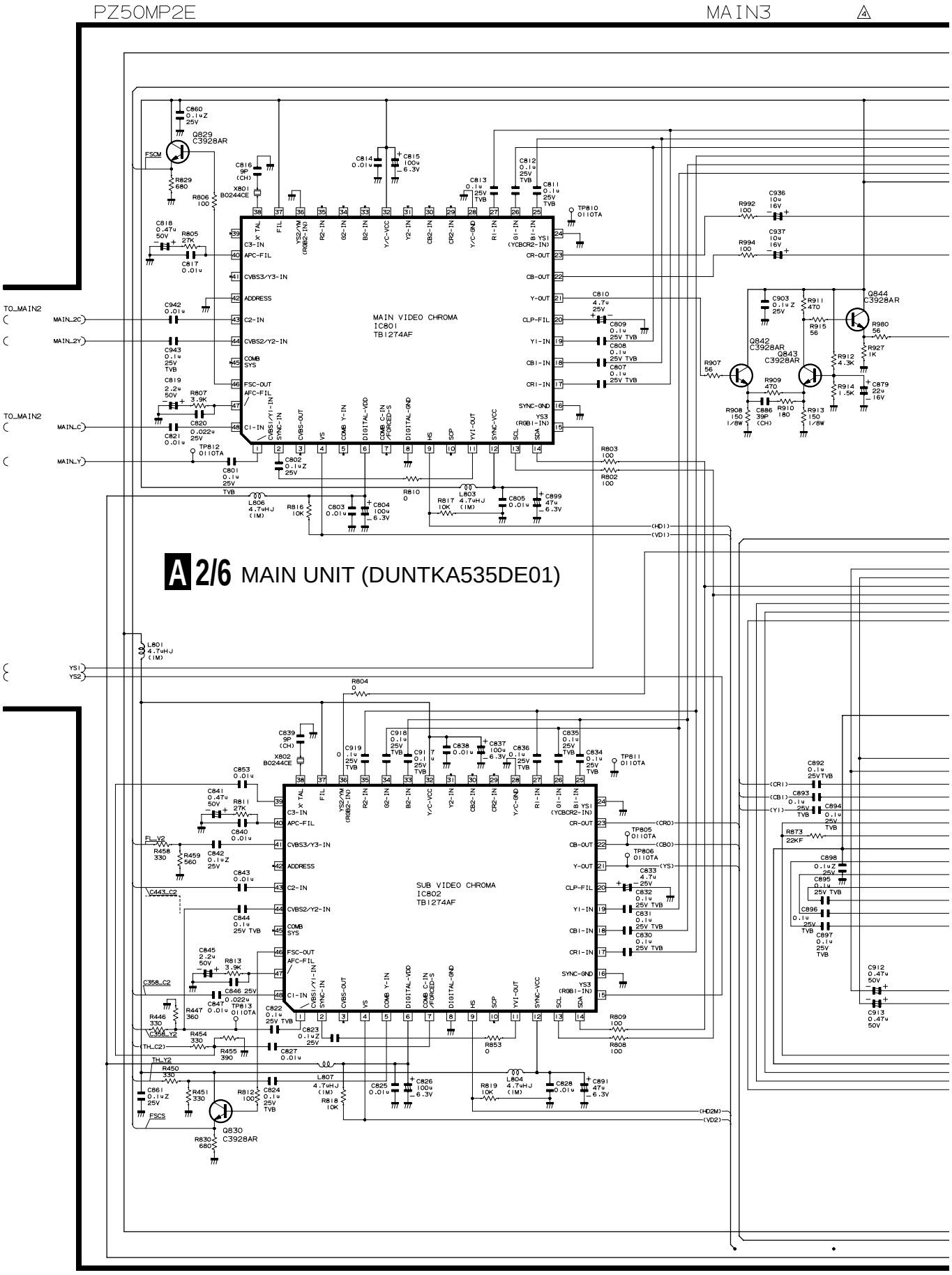
* PWB1001
XA535CEN3

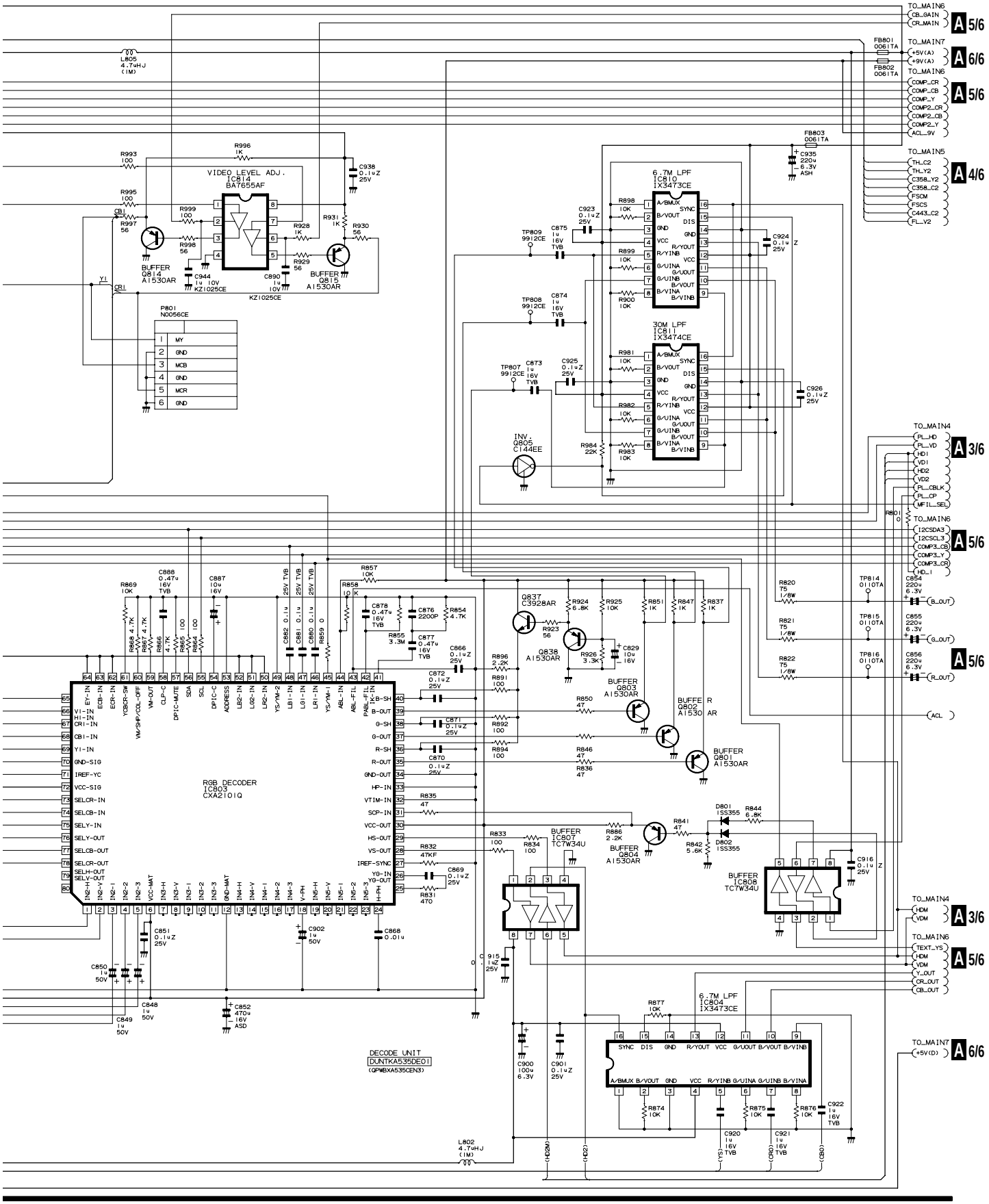
DECODE UNIT
DUNTKA535DE01
(QPWBXA535CEN3)

MAIN2 ⚠4


TO_MAIN5 A 4/6
C_YI
C358_YI
TH_YI
TH_CI
SEL_1
SEL_3
FB601 0061TA
FB603 0061TA
TO_MAIN7
+5V(A)
+12V(A)
BUFFER Q601 C3928AR
AMP Q602 C3928A
BUFFER Q603 C3928AR
Q604 C3928AR
Q605 C3928AR
Q606 C3928AR
Q607 C3928AR
BUFFER Q608 C3928AR
AMP Q614 C3928AR
BUFFER Q615 C3928AR
BUFFER Q613 C3928AR
BUFFER Q609 C3928AR
CLAMP Q610 K1467
BUFFER Q611 C3928AR
AMP Q612 C3928AR
BUFFER Q616 C3928AR
BUFFER Q617 A1530AR
VIDEO SW IC603 NJM2233V
BUFFER Q618 C3928AR BUFFER
BUFFER Q619 A1530AR
TP603 9912CE
TP604 9912CE
TO_MAIN3 A 2/6
MAIN_2C
MAIN_2Y
MAIN_C
MAIN_Y
YS2
YS1
TO_MAIN4
CNR_HBLK
CNR_CP
A 3/6
FAST SW SELECTOR IC605 TC4052BF
TEN_B
TEN_A
HDS
Q625 C144EE
Q622 C144TE
TO_MAIN5
RGBCK_S
RGBCK_M
A 4/6
IC606 74HCT74F
Q623 C144TE
Q624 C144EE
TP601 9912CE
TP602 9912CE
SYNC SEP. IC604 TA1318AF
X601 A0034CE
TO_MAIN4
SP_CP
HD3
VD3
SP_HD
SP_VD
A 3/6
TO_MAIN6
COMP3_Y
COMP2_Y
I2CSCL3
I2CSDA3
A 5/6
FAST_SW1
FAST_SW2
TO_MAIN7
+9V(A)
A 6/6
FB602 0061TA

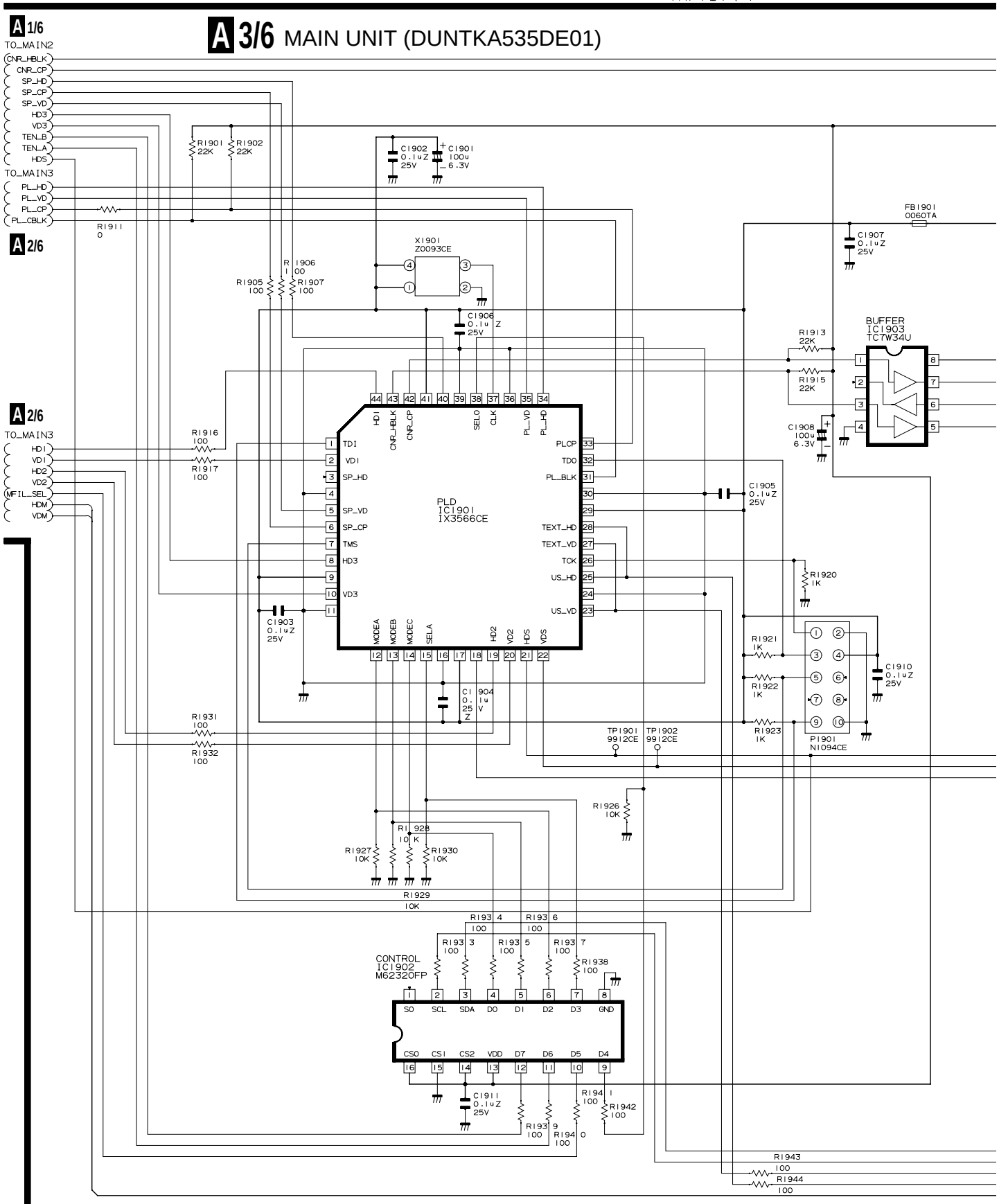
3.5 MAIN UNIT (2/6)

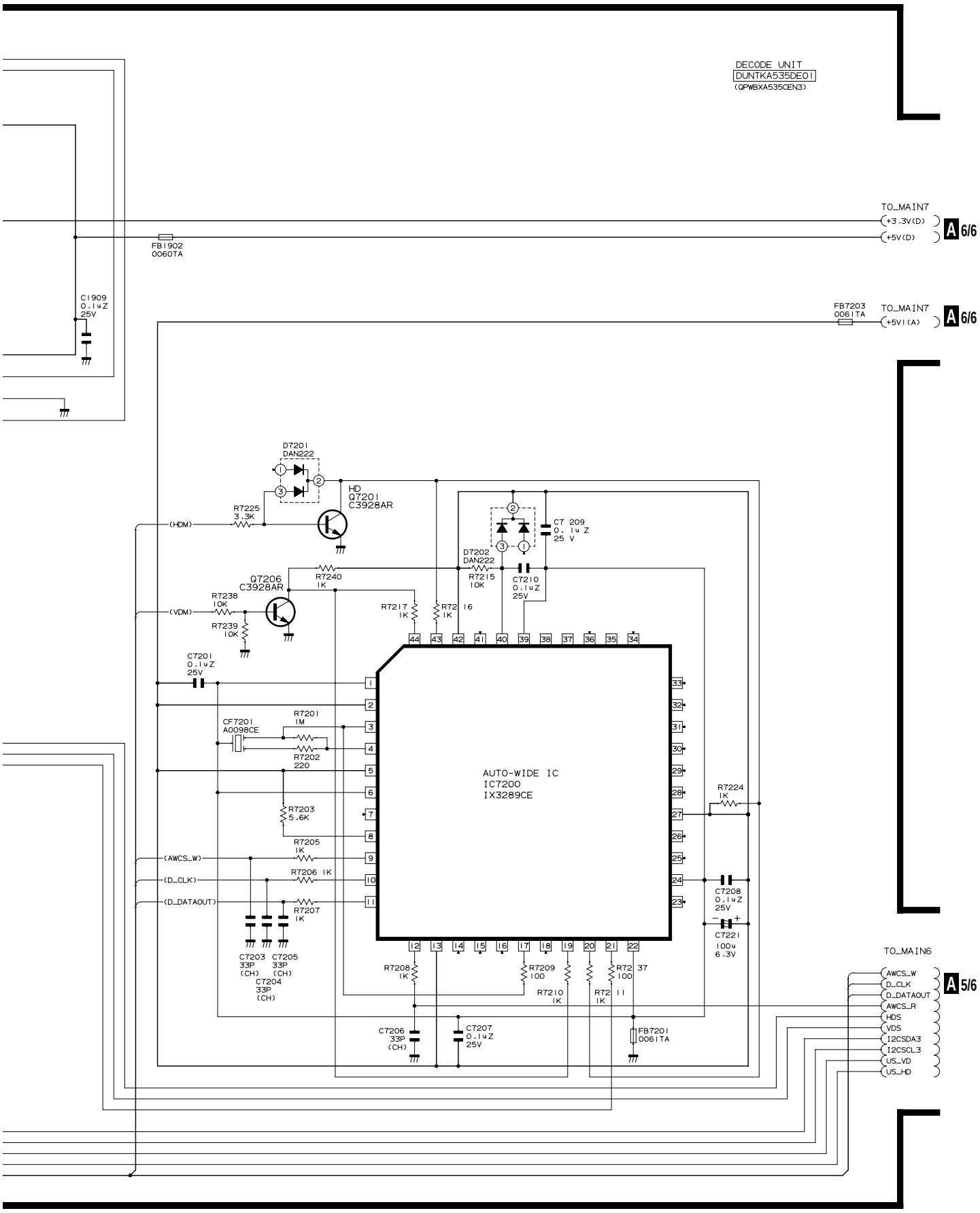



TO_MAIN6
CB_GAIN
CR_MAIN
A 5/6
TO_MAIN7
+5V(A)
+9V(A)
A 6/6
TO_MAIN6
COMP_CR
COMP_CB
COMP_Y
COMP2_CR
COMP2_CB
COMP2_Y
ACL_9V
A 5/6
TO_MAIN5
TH_C2
TH_Y2
C358_Y2
C358_C2
FSCM
FSCS
C443_C2
FL_Y2
A 4/6
FB801 0061TA
FB802 0061TA
FB803 0061TA
L805 4.7uHJ (1M)
VIDEO LEVEL ADJ.
IC814
BA7655AF
BUFFER Q814 A1530AR
BUFFER Q815 A1530AR
KZ1025CE
P801 N0056CE
MY
GND
MCB
GND
MCR
GND
6.7M LPF IC810 IX3473CE
30M LPF IC811 IX3474CE
INV. Q805 C144EE
TO_MAIN4
PL_HD
PL_VD
HD1
VD1
HD2
VD2
PL_CBLK
PL_CP
MFIL_SEL
A 3/6
TO_MAIN6
I2CSDA3
I2CSCL3
COMP3_CB
COMP3_Y
COMP3_CR
HD_I
A 5/6
B_OUT
G_OUT
R_OUT
ACL
RGB DECODER IC803 CXA2101Q
BUFFER IC807 TC7W34U
BUFFER Q803 A1530AR
BUFFER Q802 A1530 AR
BUFFER Q801 A1530AR
BUFFER Q804 A1530AR
BUFFER IC808 TC7W34U
TO_MAIN4
HDM
VDM
A 3/6
TO_MAIN6
TEXT_YS
HDM
VDM
Y_OUT
CR_OUT
CB_OUT
A 5/6
TO_MAIN7
+5V(D)
A 6/6
6.7M LPF IC804 IX3473CE
DECODE UNIT
DUNTKA535DE01
(QPWBXA535CEN3)
L802 4.7uHJ (1M)

3.6 MAIN UNIT (3/6)

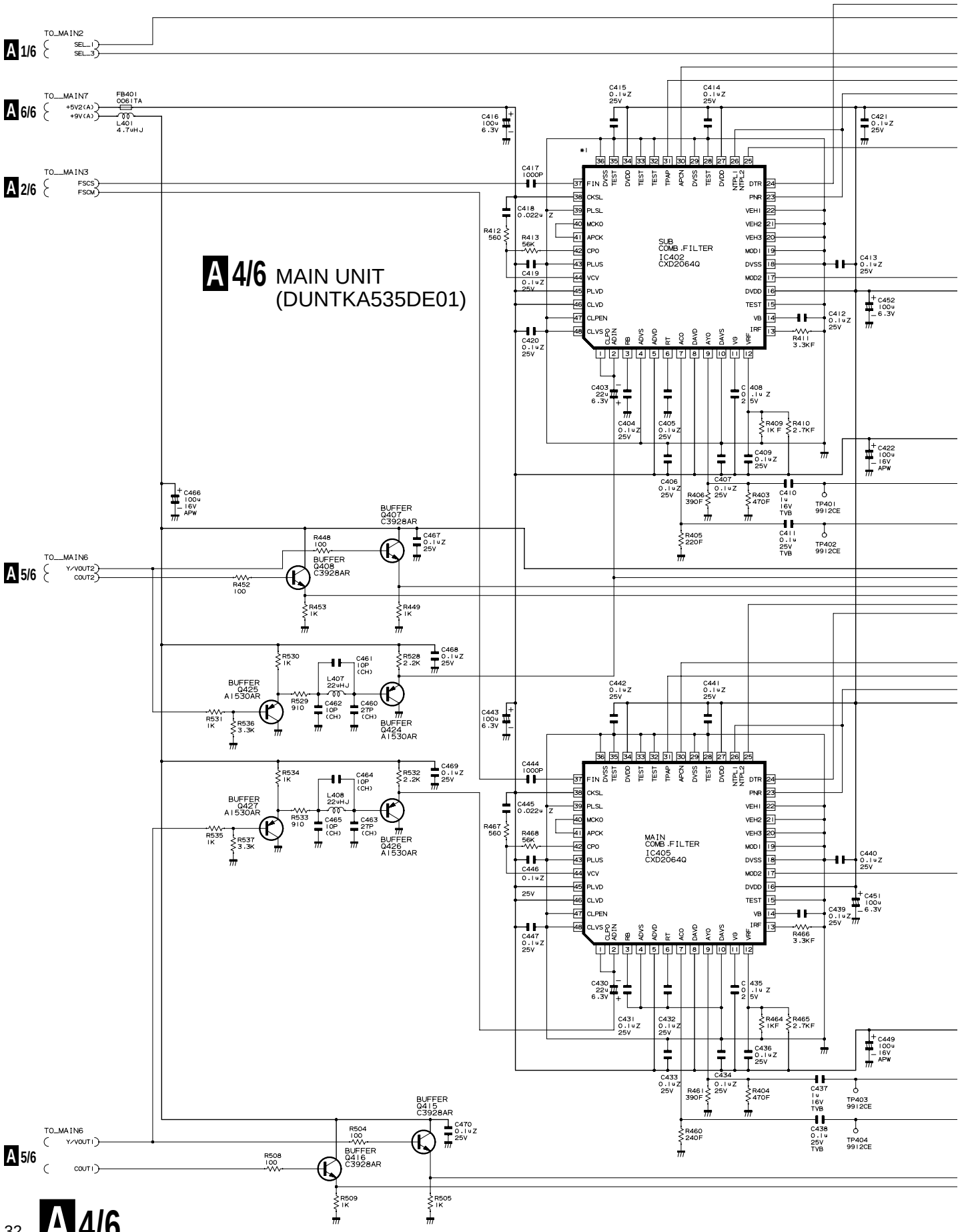
PZ50MP2E MAIN4 4

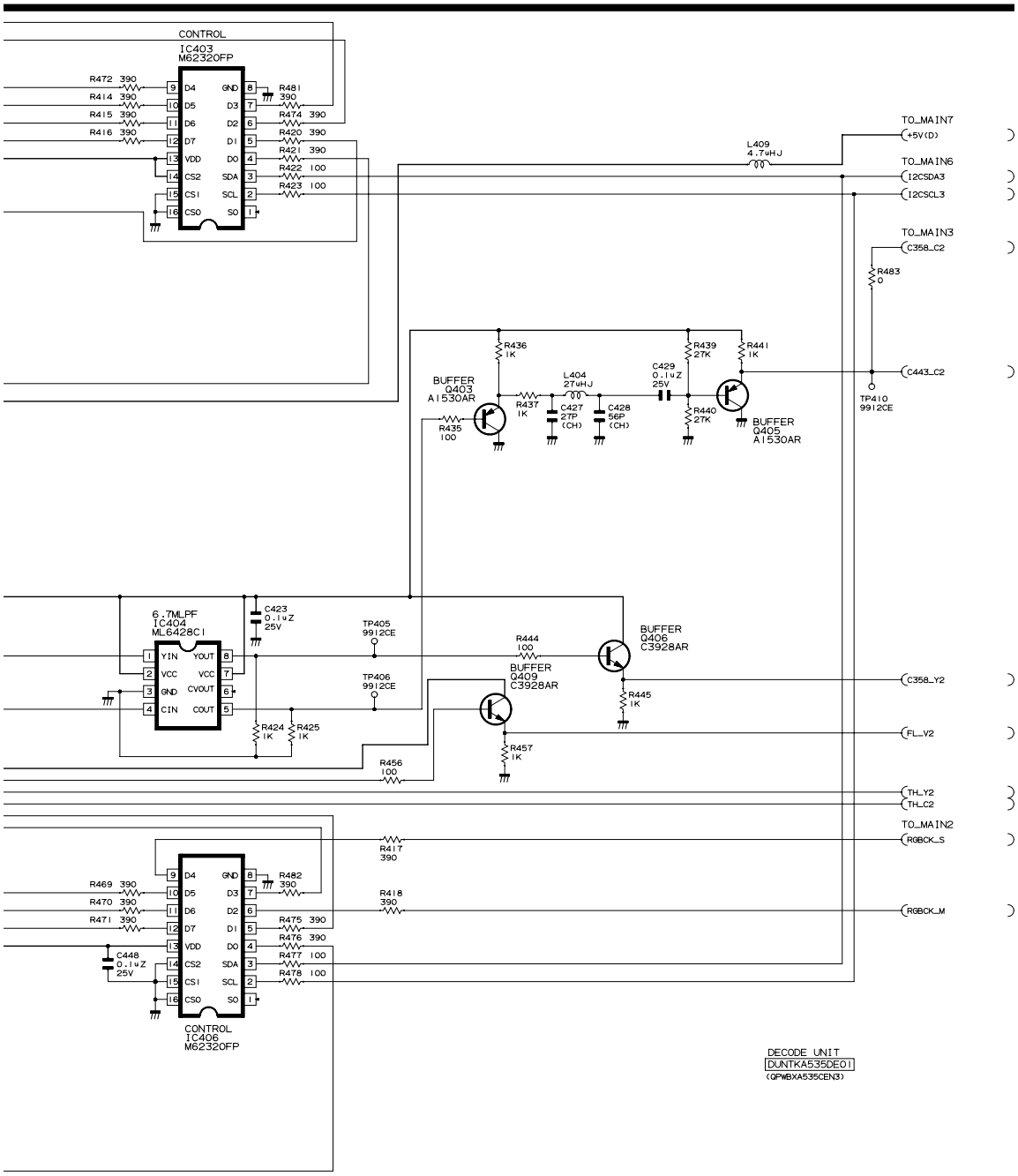



DECODE UNIT
DUNTKA535DE01
(QPWBXA535CEN3)
TO_MAIN7
+3.3V(D)
+5V(D)
A 6/6
FB1902
0060TA
C1909
0.1uZ
25V
FB7203
0061TA
TO_MAIN7
+5V1(A)
A 6/6
D7201
DAN222
HD
Q7201
C3928AR
R7225
3.3K
(HDM)
C7 209
0. 1u Z
25 V
D7202
DAN222
R7215
10K
C7210
0.1uZ
25V
R7240
1K
Q7206
C3928AR
R7238
10K
(VDM)
R7239
10K
R7217
1K
R7216
1K
C7201
0.1uZ
25V
CF7201
A0098CE
R7201
1M
R7202
220
R7203
5.6K
R7205
1K
(AWCS_W)
R7206 1K
(D_CLK)
(D_DATAOUT)
R7207
1K
AUTO-WIDE IC
IC7200
IX3289CE
R7224
1K
C7208
0.1uZ
25V
C7221
100u
6.3V
C7203
33P
(CH)
C7205
33P
(CH)
C7204
33P
(CH)
R7208
1K
R7209
100
R7210
1K
R7211
1K
R7237
100
C7206
33P
(CH)
C7207
0.1uZ
25V
FB7201
0061TA
TO_MAIN6
A 5/6
AWCS_W
D_CLK
D_DATAOUT
AWCS_R
HDS
VDS
I2CSDA3
I2CSCL3
US_VD
US_HD

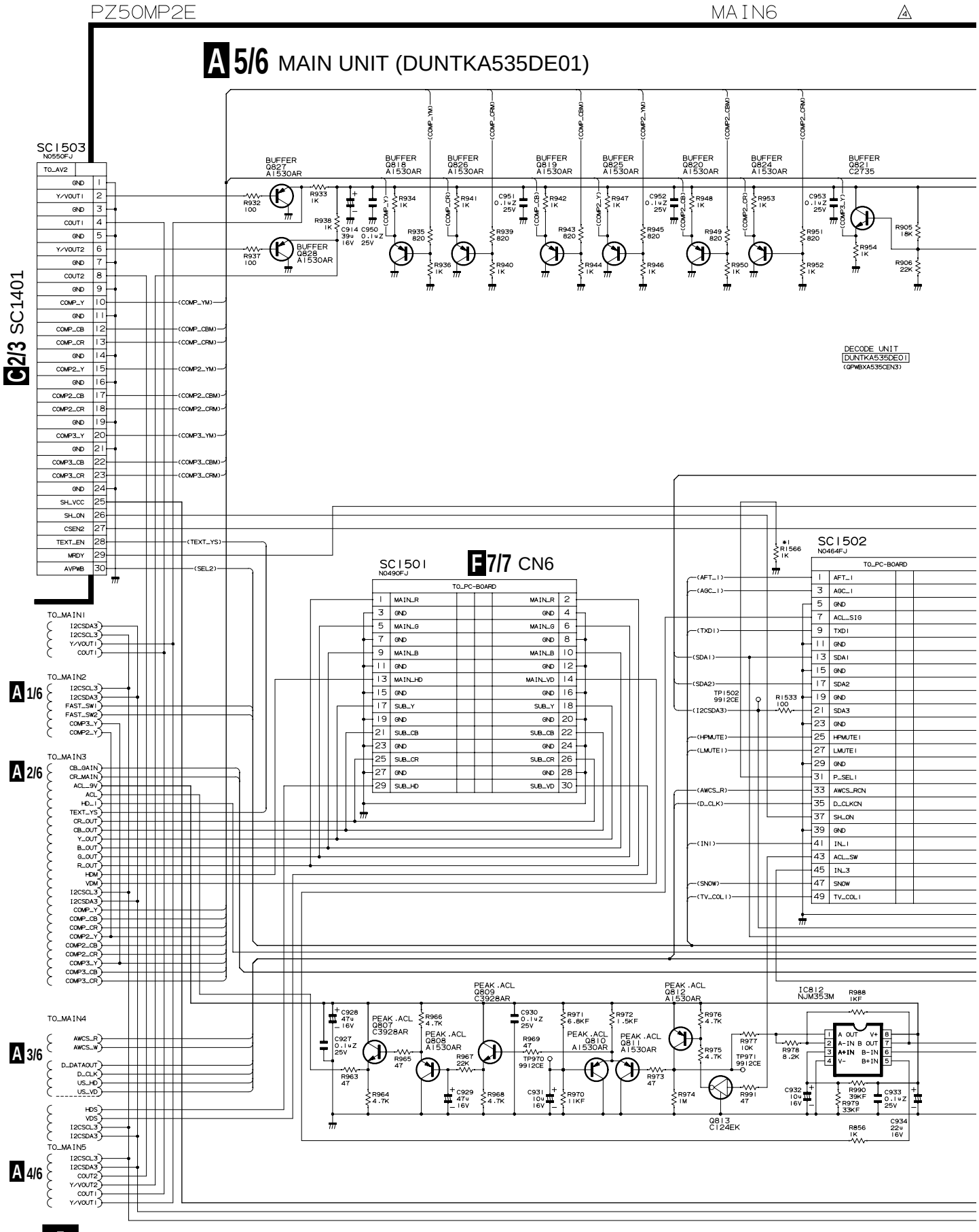
3.7 MAIN UNIT (4/6)

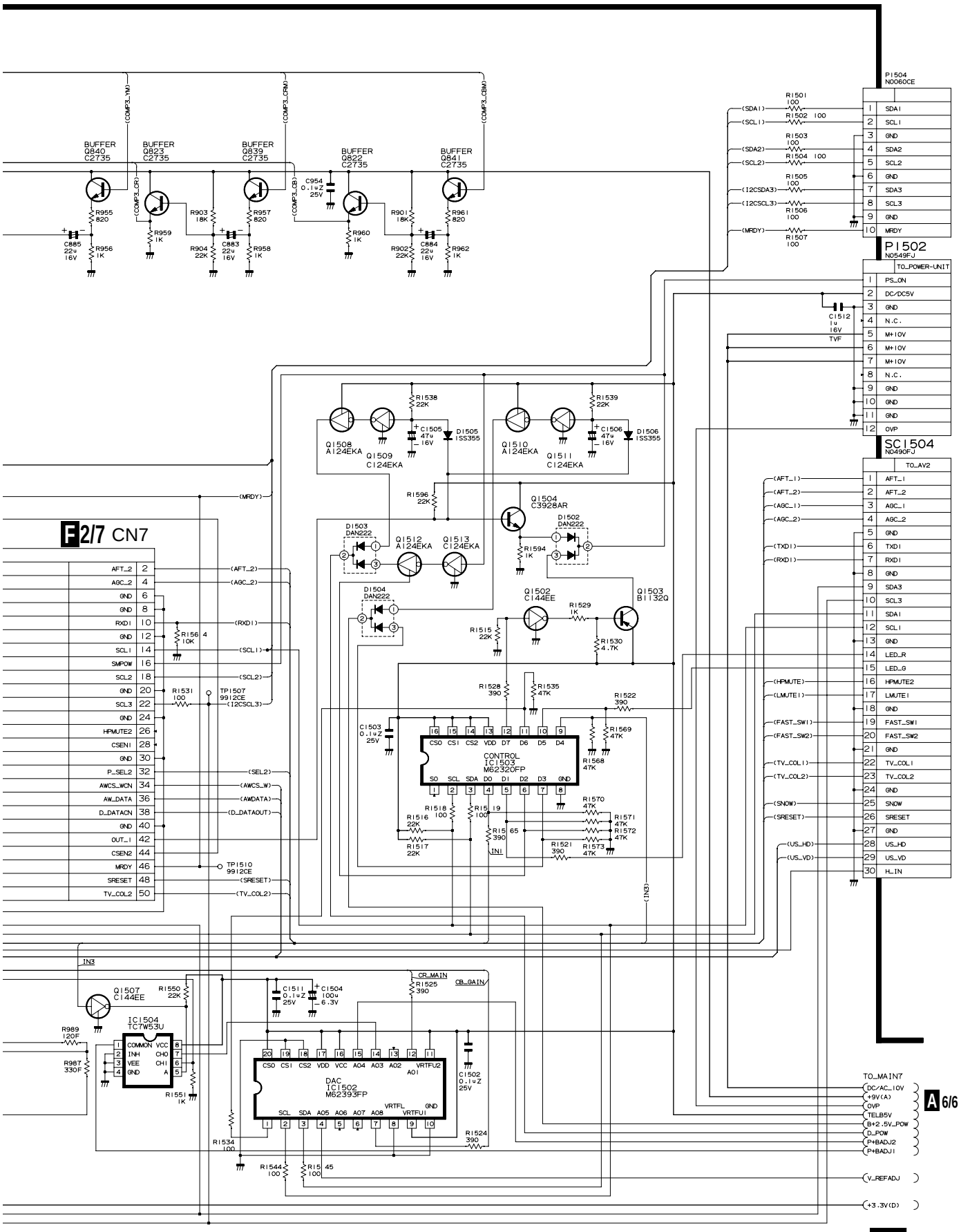
PZ50MP2E MAIN5 4




CONTROL
IC403
M62320FP
L409
4.7uHJ
TO_MAIN7
+5V(D)
A 6/6
TO_MAIN6
I2CSDA3
I2CSCL3
A 5/6
TO_MAIN3
C358_C2
A 2/6
R483
0
C443_C2
A 2/6
TP410
9912CE
BUFFER
Q403
A1530AR
R436
1K
R437
1K
L404
27uHJ
C427
27P
(CH)
C428
56P
(CH)
C429
0.1uZ
25V
R439
27K
R441
1K
R440
27K
BUFFER
Q405
A1530AR
R435
100
6.7MLPF
IC404
ML6428CI
C423
0.1uZ
25V
TP405
9912CE
TP406
9912CE
R444
100
BUFFER
Q409
C3928AR
BUFFER
Q406
C3928AR
R445
1K
C358_Y2
A 2/6
FL_V2
R457
1K
R424
1K
R425
1K
R456
100
TH_Y2
TH_C2
TO_MAIN2
RGBCK_S
A 1/6
R417
390
R418
390
RGBCK_M
R469 390
R470 390
R471 390
R482
390
R475 390
R476 390
R477 100
R478 100
C448
0.1uZ
25V
CONTROL
IC406
M62320FP
DECODE UNIT
DUNTKA535DE01
(QPWBXA535CEN3)
6.7M_LPF
IC407
ML6428CI
C450
0.1uZ
25V
TP407
9912CE
TP408
9912CE
R499
330
R500
1K
R564
360
BUFFER
Q414
A1530AR
TO_MAIN2
C358_Y1
A 1/6
R479
1K
R480
1K
C_Y1
A 1/6
TH_Y1
TH_C1

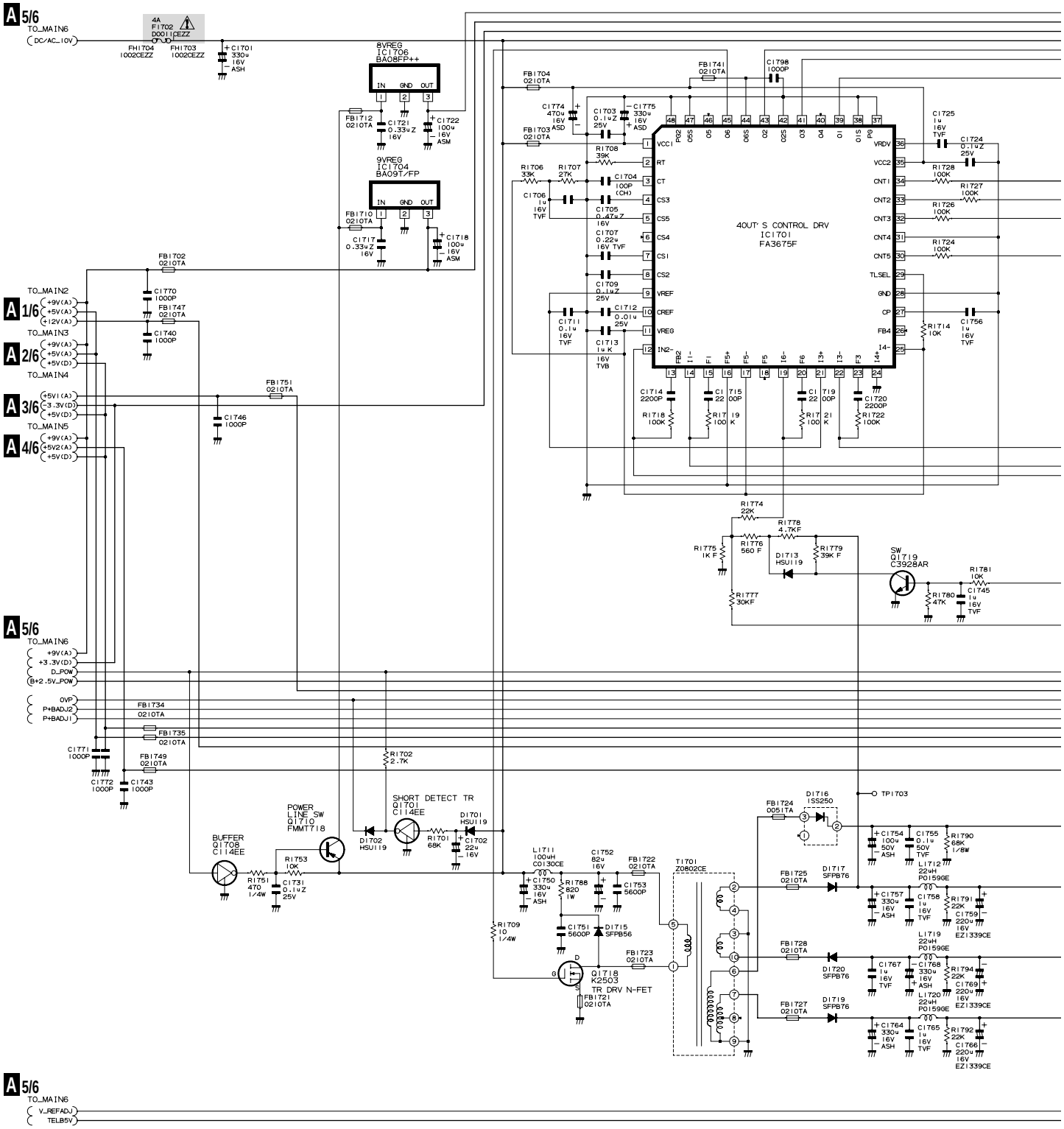
3.8 MAIN UNIT (5/6)

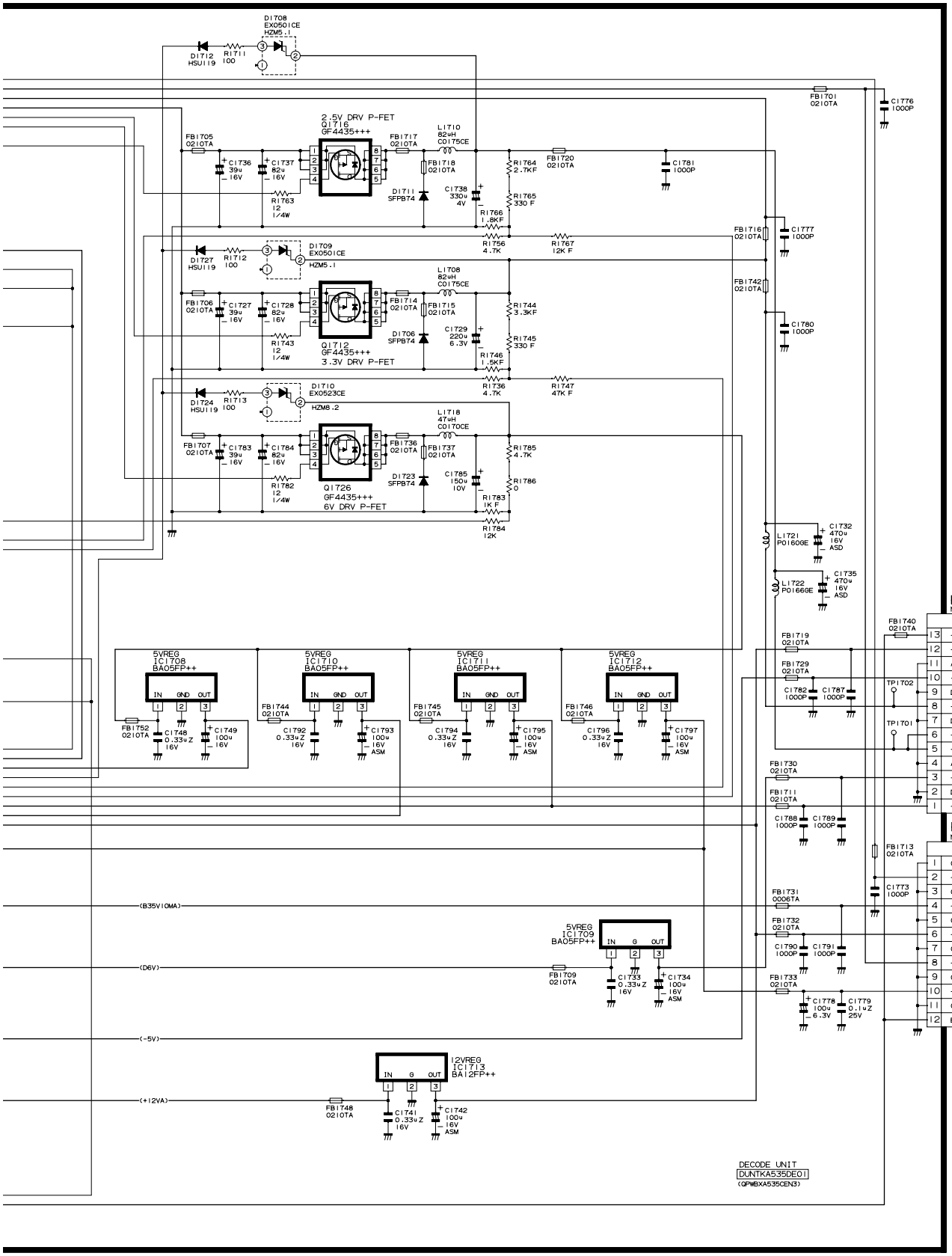



BUFFER Q840 C2735
BUFFER Q823 C2735
BUFFER Q839 C2735
BUFFER Q822 C2735
BUFFER Q841 C2735
P1504 N0060CE
P1502 N0549FJ
TO_POWER-UNIT
SC1504 N0490FJ
TO_AV2
F 2/7 CN7
G CN703
C 2/3 SC1402
A 6/6
A 5/6
CONTROL IC1503 M62320FP
DAC IC1502 M62393FP
IC1504 TC7W53U
Q1504 C3928AR
Q1502 C144EE
Q1503 B1132Q
Q1507 C144EE
Q1508 A124EKA
Q1509 C124EKA
Q1510 A124EKA
Q1511 C124EKA
Q1512 A124EKA
Q1513 C124EKA
TO_MAIN7

3.9 MAIN UNIT (6/6)

PZ50MP2E **A 6/6** MAIN UNIT (DUNTKA535DE01) MAIN7 ⚠4

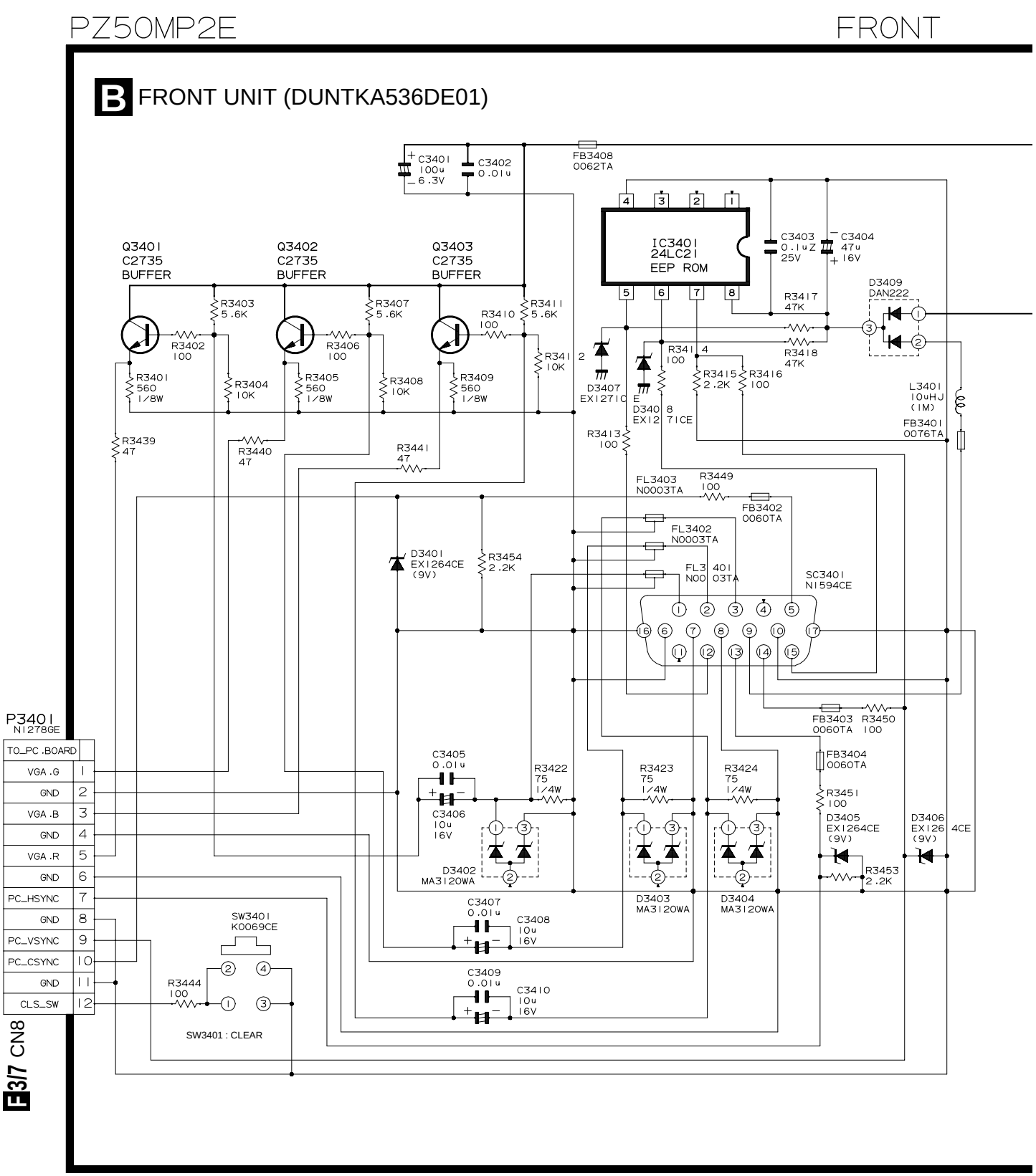


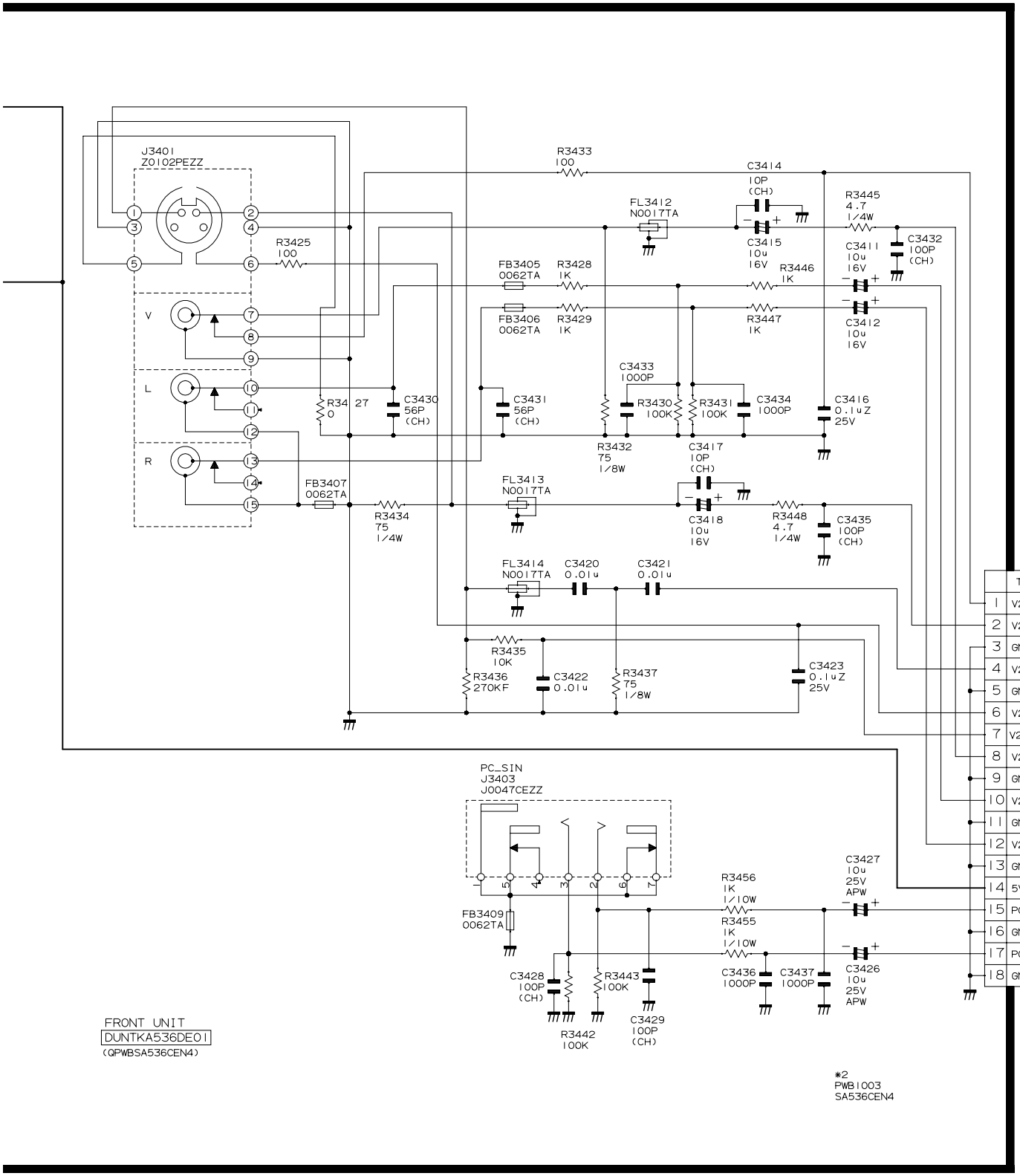


F7/7 CN9

C2/3 P2501

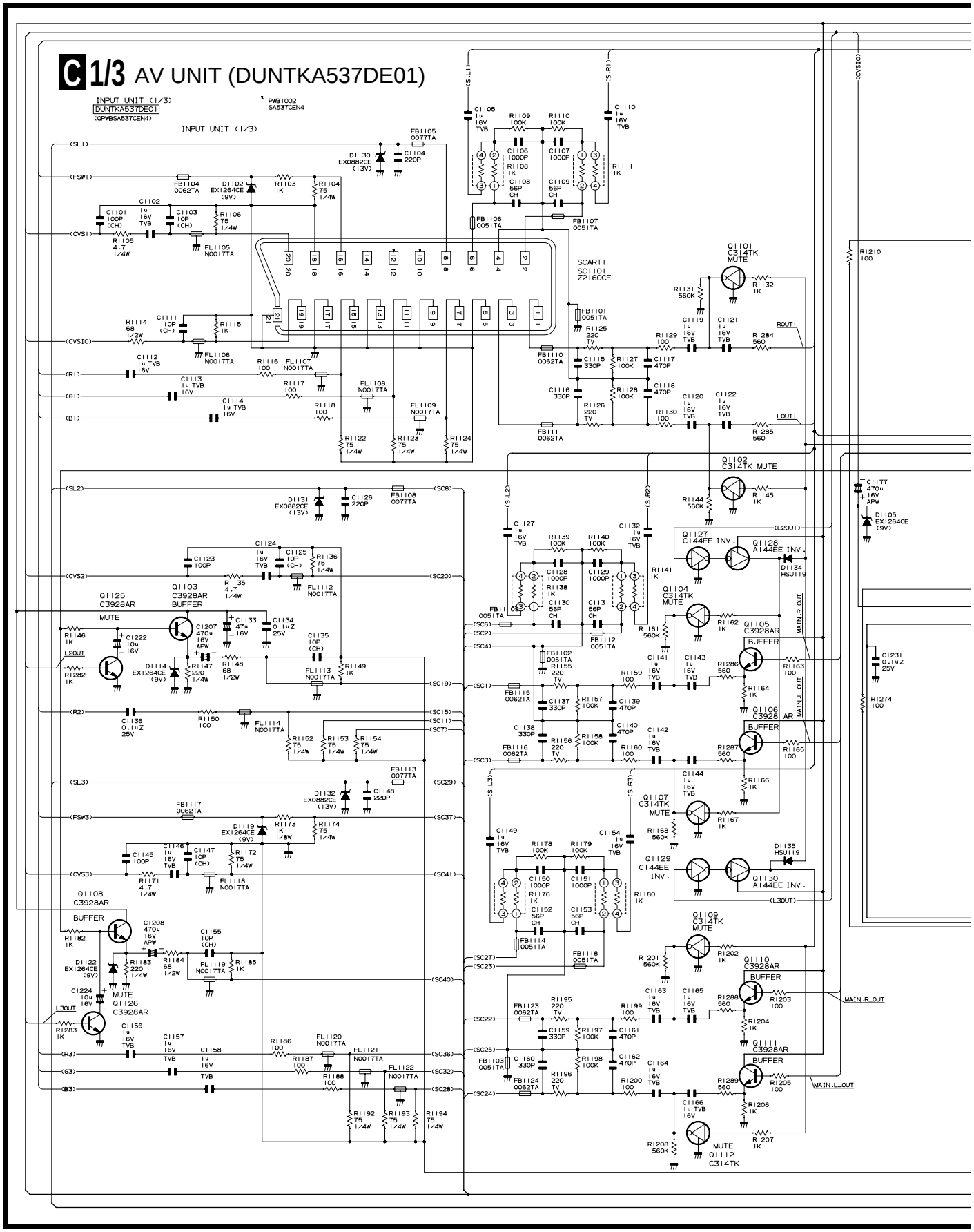
3.10 FRONT UNIT

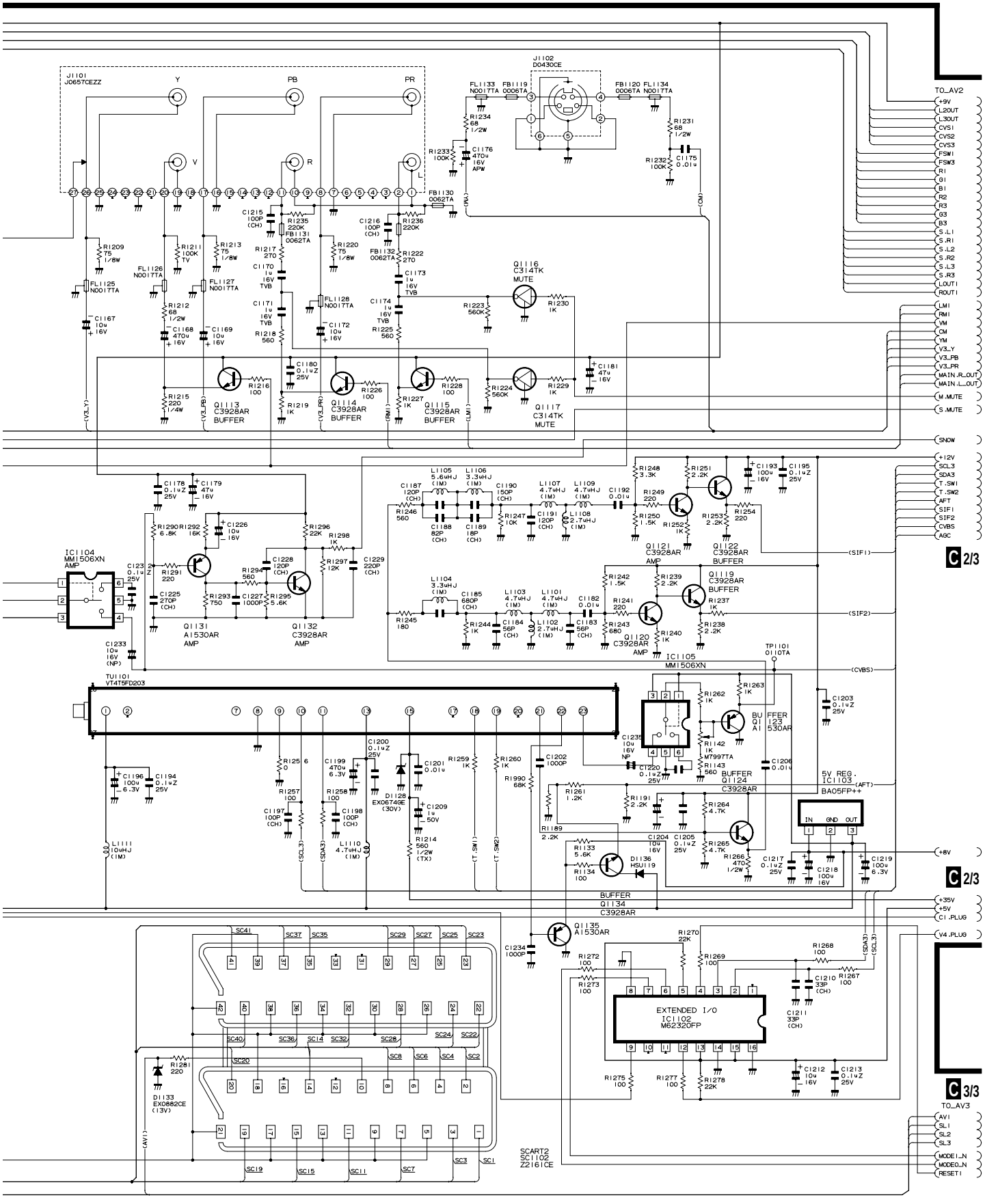



J3401
Z0102PEZZ
R3425
100
R3433
100
C3414
10P
(CH)
FL3412
N0017TA
C3415
10u
16V
R3445
4.7
1/4W
C3432
100P
(CH)
C3411
10u
16V
R3446
1K
C3412
10u
16V
FB3405
0062TA
R3428
1K
FB3406
0062TA
R3429
1K
R3447
1K
V
L
R
R34 27
0
C3430
56P
(CH)
C3431
56P
(CH)
C3433
1000P
R3430
100K
R3431
100K
C3434
1000P
C3416
0.1uZ
25V
R3432
75
1/8W
C3417
10P
(CH)
FB3407
0062TA
R3434
75
1/4W
FL3413
N0017TA
C3418
10u
16V
R3448
4.7
1/4W
C3435
100P
(CH)
FL3414
N0017TA
C3420
0.01u
C3421
0.01u
R3435
10K
R3436
270KF
C3422
0.01u
R3437
75
1/8W
C3423
0.1uZ
25V
P3402
N0428FJ
TO_AV2
1 V2_PLUG
2 V2_Y
3 GND
4 V2_C
5 GND
6 V2_SPLUG
7 V2_S2PLUG
8 V2_V
9 GND
10 V2_L
11 GND
12 V2_R
13 GND
14 5V(A)
15 PC_L
16 GND
17 PC_R
18 GND
PC_SIN
J3403
J0047CEZZ
FB3409
0062TA
R3456
1K
1/10W
R3455
1K
1/10W
C3427
10u
25V
APW
C3426
10u
25V
APW
C3436
1000P
C3437
1000P
C3428
100P
(CH)
R3442
100K
R3443
100K
C3429
100P
(CH)
FRONT UNIT
DUNTKA536DE01
(QPWBSA536CEN4)
*2
PWB1003
SA536CEN4
C2/3 P1301

3.11 AV UNIT (1/3)

PZ50MP2E AVIE

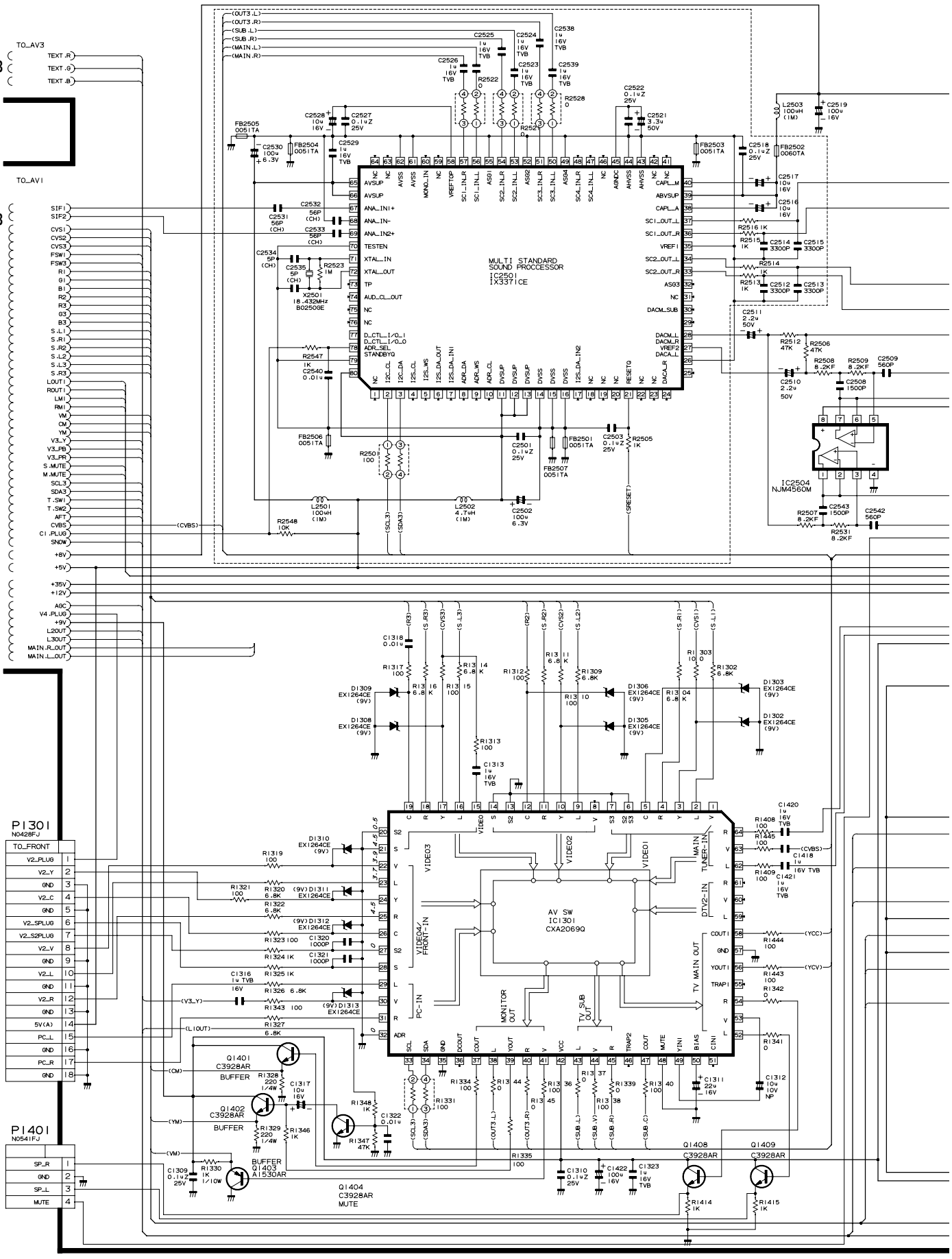


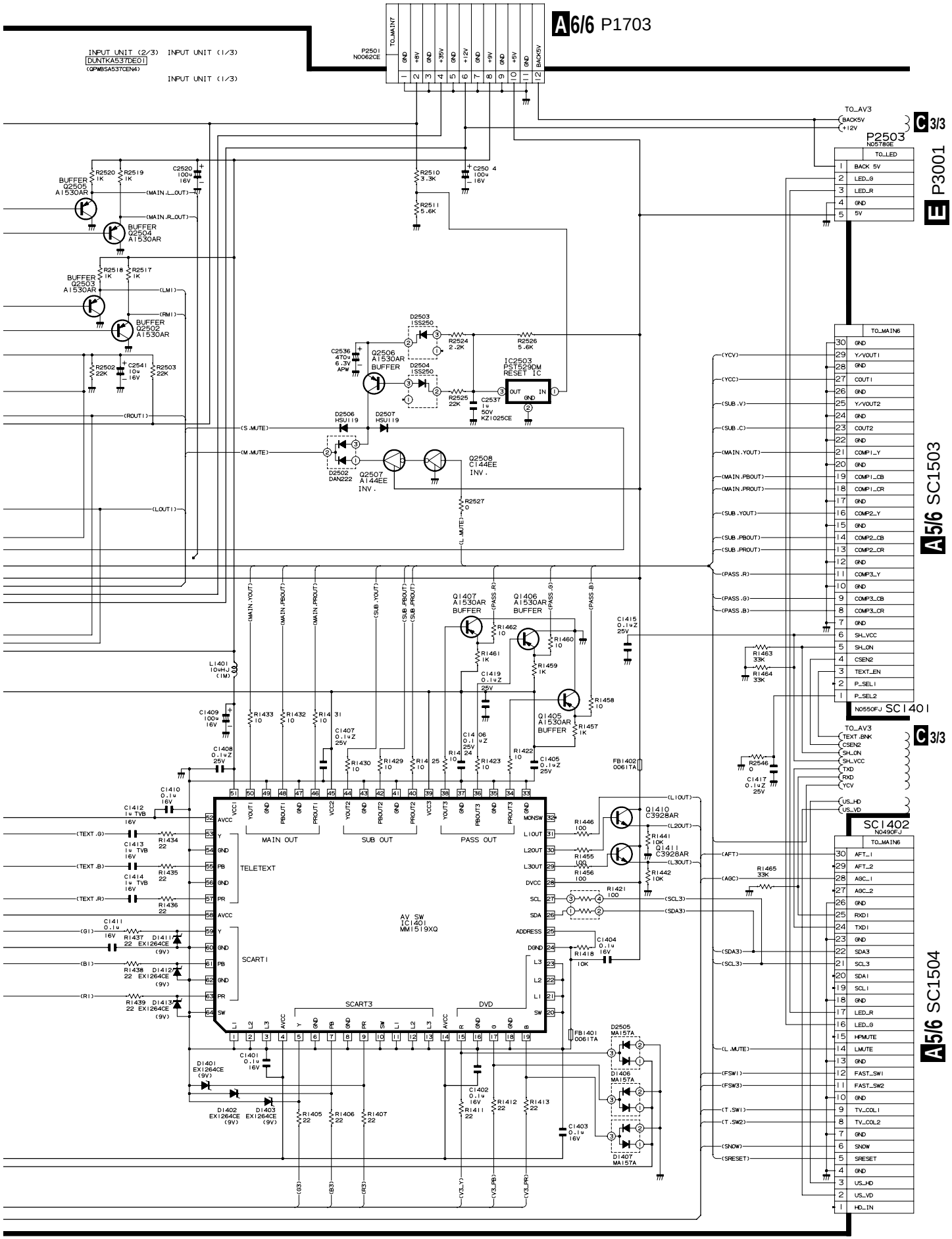

J1101
J0657CEZZ
Y
PB
PR
V
R
L
J1102
D0430CE
TO_AV2
+9V
L2OUT
L3OUT
CVS1
CVS2
CVS3
FSW1
FSW3
R1
G1
B1
R2
R3
G3
B3
S.L1
S.R1
S.L2
S.R2
S.L3
S.R3
LOUT1
ROUT1
LM1
RM1
VM
CM
YM
V3_Y
V3_PB
V3_PR
MAIN.R_OUT
MAIN.L_OUT
M.MUTE
S.MUTE
Q1116
C314TK
MUTE
Q1117
C314TK
MUTE
Q1113
C3928AR
BUFFER
Q1114
C3928AR
BUFFER
Q1115
C3928AR
BUFFER
IC1104
MM1506XN
AMP
Q1131
A1530AR
AMP
Q1132
C3928AR
AMP
IC1105
MM1506XN
Q1121
C3928AR
AMP
Q1122
C3928AR
BUFFER
Q1119
C3928AR
BUFFER
Q1120
C3928AR
AMP
TP1101
0110TA
(CVBS)
(SIF1)
(SIF2)
SNOW
+12V
SCL3
SDA3
T.SW1
T.SW2
AFT
SIF1
SIF2
CVBS
AGC
C 2/3
TU1101
VT4T5FD203
BUFFER
Q1123
A1530AR
BUFFER
Q1124
C3928AR
BUFFER
Q1134
C3928AR
Q1135
A1530AR
5V REG.
IC1103
BA05FP++
(AFT)
+8V
C 2/3
+35V
+5V
CI.PLUG
V4.PLUG
EXTENDED I/O
IC1102
M62320FP
C 3/3
TO_AV3
AV1
SL1
SL2
SL3
MODE1_N
MODE0_N
RESET1
SCART2
SC1102
Z2161CE
D1133
EX0882CE
(13V)
D1128
EX0674CE
(30V)
D1136
HSU119
C 1/3
41

3.12 AV UNIT (2/3)

PZ50MP2E AV2E

C 2/3 AV UNIT (DUNTKA537DE01)

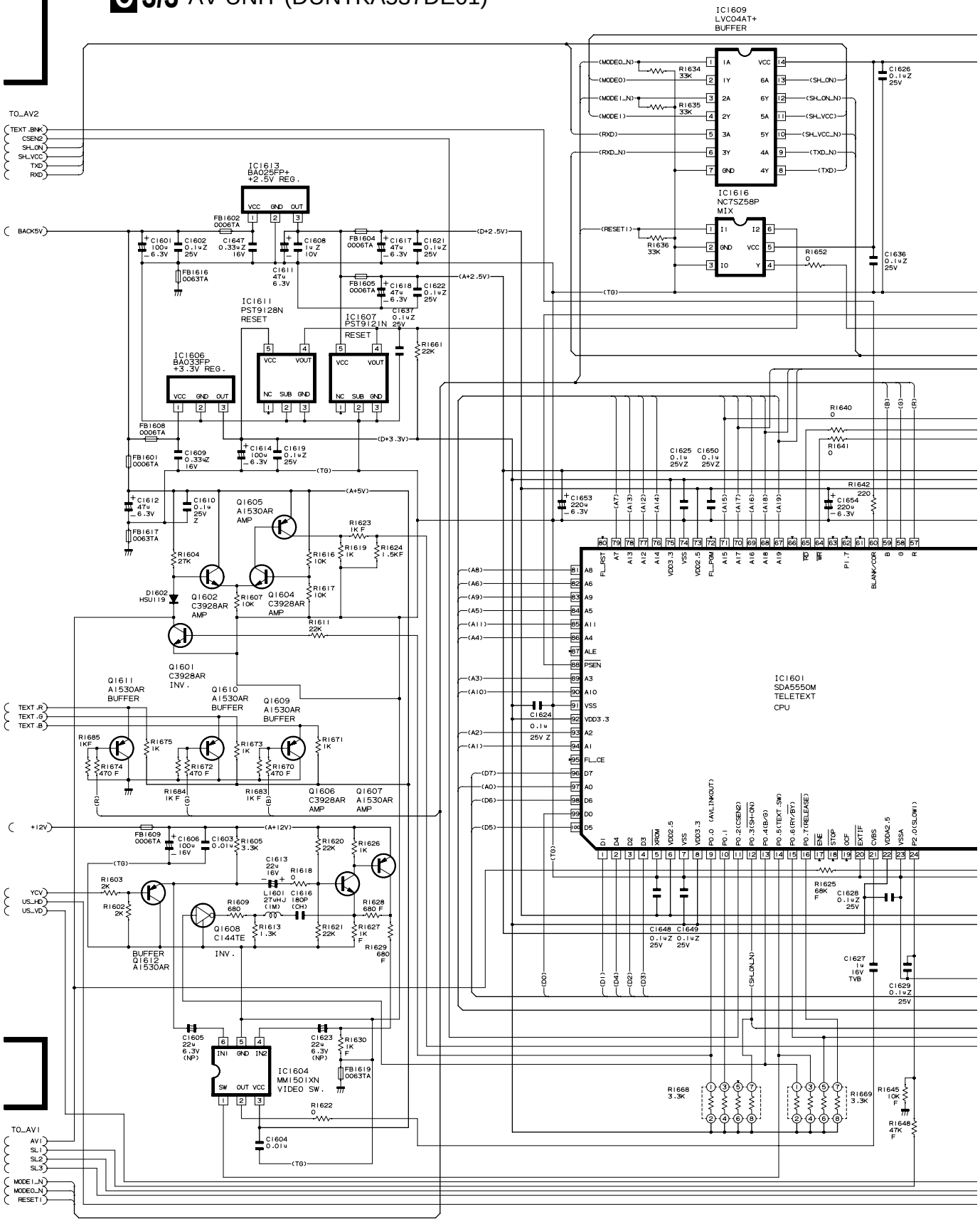


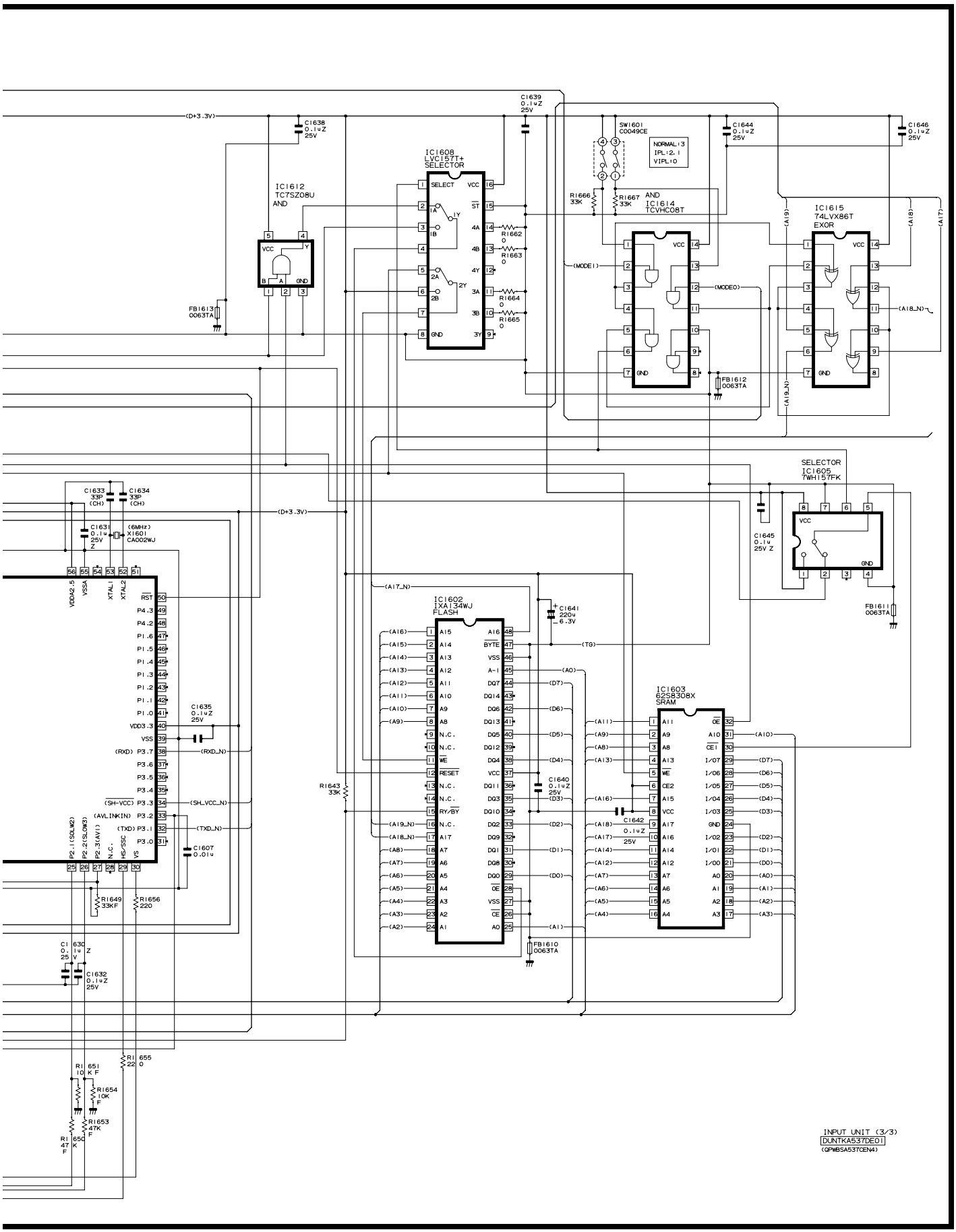

A6/6 P1703
P2501
N0062CE
TO_MAIN7
GND +8V GND +35V GND +12V GND +8V GND +5V GND BACK5V
INPUT UNIT (2/3) INPUT UNIT (1/3)
DUNTKA537DE01
(QPWBSA537CEN4)
INPUT UNIT (1/3)
TO_AV3
BACK5V
+12V
C 3/3
P2503
N0578GE
TO_LED
BACK 5V
LED_G
LED_R
GND
5V
E P3001
TO_MAIN6
GND
Y/VOUT1
COUT1
Y/VOUT2
COUT2
COMP1_Y
COMP1_CB
COMP1_CR
COMP2_Y
COMP2_CB
COMP2_CR
COMP3_Y
COMP3_CB
COMP3_CR
SH_VCC
SH_ON
CSEN2
TEXT_EN
P_SEL1
P_SEL2
A5/6 SC1503
N0550FJ SC1401
TO_AV3
TEXT_BNK
CSEN2
SH_ON
SH_VCC
TXD
RXD
YCV
US_HD
US_VD
C 3/3
SC1402
N0490FJ
TO_MAIN6
AFT_1
AFT_2
AGC_1
AGC_2
GND
RXD1
TXD1
GND
SDA3
SCL3
SDA1
SCL1
GND
LED_R
LED_G
HPMUTE
LMUTE
GND
FAST_SW1
FAST_SW2
GND
TV_COL1
TV_COL2
GND
SNOW
SRESET
GND
US_HD
US_VD
HD_IN
A5/6 SC1504
IC1401
MM1519XQ
AV SW
TELETEXT
SCART1
SCART3
DVD
MAIN OUT
SUB OUT
PASS OUT
BUFFER Q2505 A1530AR
BUFFER Q2504 A1530AR
BUFFER Q2503 A1530AR
BUFFER Q2502 A1530AR
Q2506 A1530AR BUFFER
Q1407 A1530AR BUFFER
Q1406 A1530AR BUFFER
Q1405 A1530AR BUFFER
IC2503 PST529DM RESET IC
Q2507 A1144EE INV.
Q2508 C144EE INV.
Q1410 C3928AR
Q1411 C3928AR
FB1402 0061TA
FB1401 0061TA
D2505 MA157A
D1406 MA157A
D1407 MA157A
D1401 EX1264CE (9V)
D1402 EX1264CE (9V)
D1403 EX1264CE (9V)
D1411 EX1264CE (9V)
D1412 EX1264CE (9V)
D1413 EX1264CE (9V)
C 2/3
43

3.13 AV UNIT (3/3)

PZ50MP2E AV3E

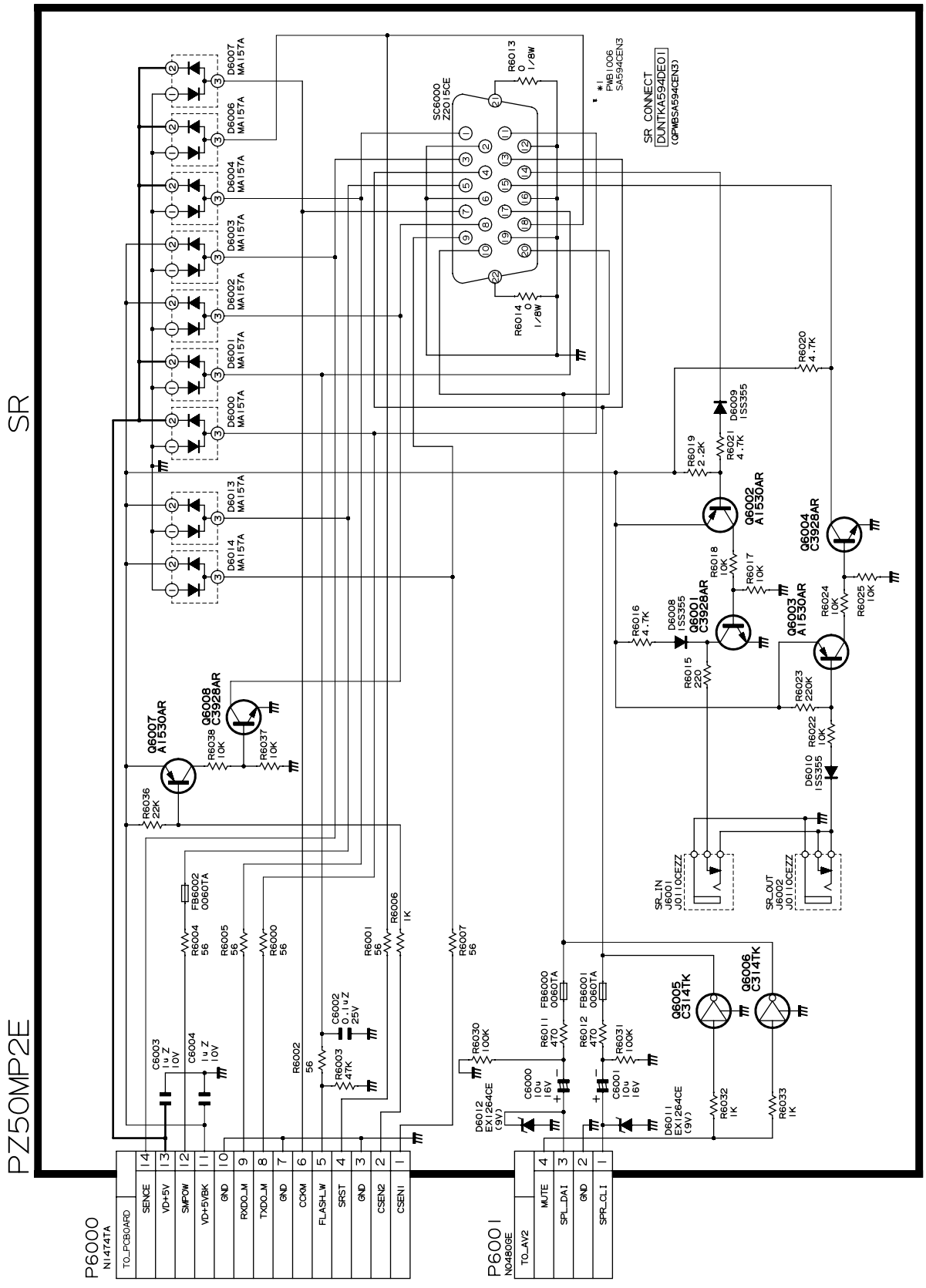
C 3/3 AV UNIT (DUNTKA537DE01)




IC1608
LVC157T+
SELECTOR
IC1612
TC7SZ08U
AND
IC1614
TCVHC08T
AND
IC1615
74LVX86T
EXOR
SW1601
C0049CE
NORMAL:3
IPL:2.1
VIPL:0
IC1602
IXA134WJ
FLASH
IC1603
62S8308X
SRAM
SELECTOR
IC1605
7WH157FK
X1601
C0002WJ
(6MHz)
(D+3.3V)
(MODE1)
(MODE0)
(A19_N)
(A18_N)
(A17_N)
(RXD_N)
(TXD_N)
(SH_VCC_N)
(TG)
INPUT UNIT (3/3)
DUNTKA537DE01
(QPWBSA537CEN4)

3.14 SR CONNECT UNIT

D SR CONNECT UNIT (DUNTKA594DE01)

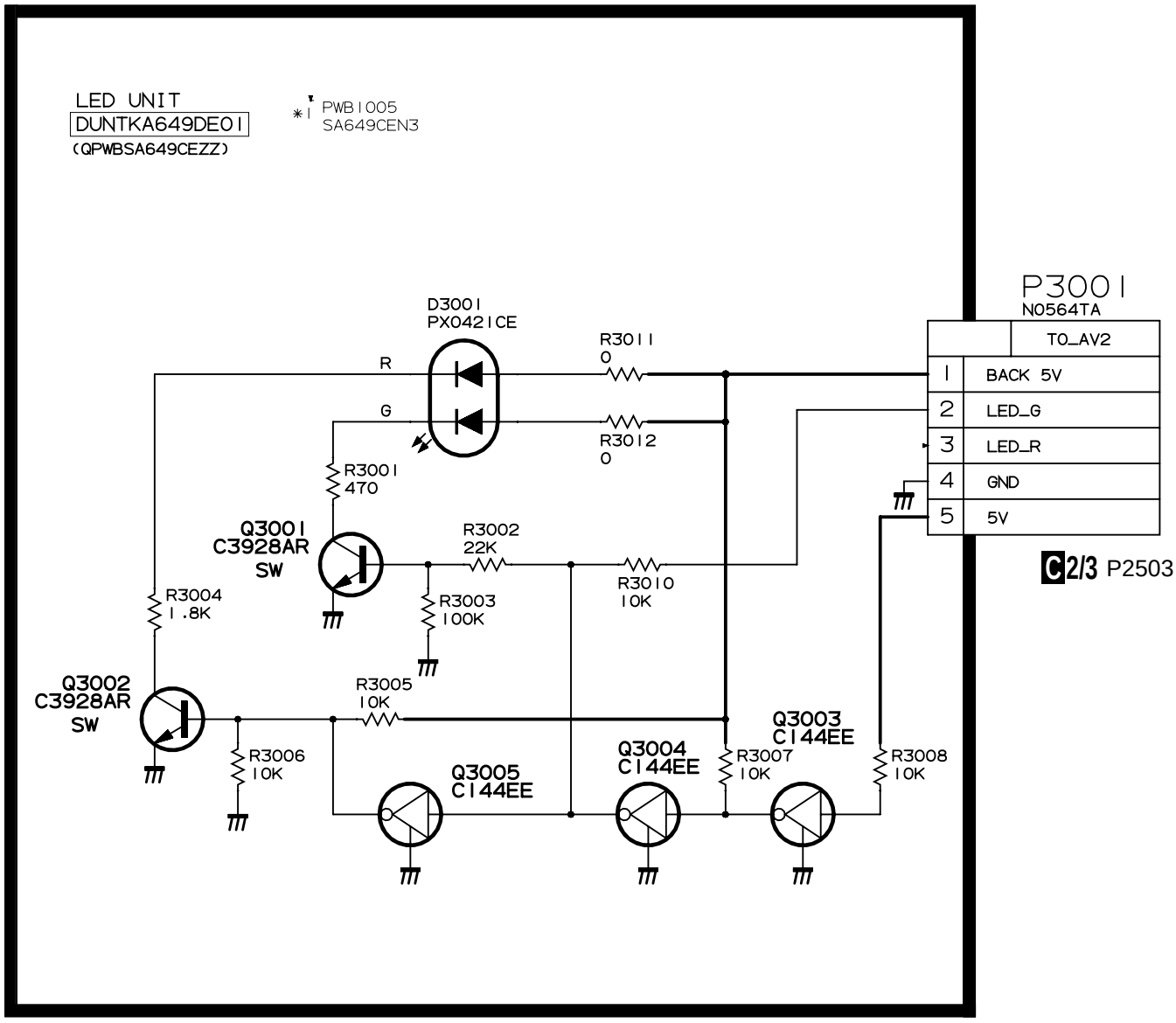


F 7/7 CN1 **C 2/3** P2502

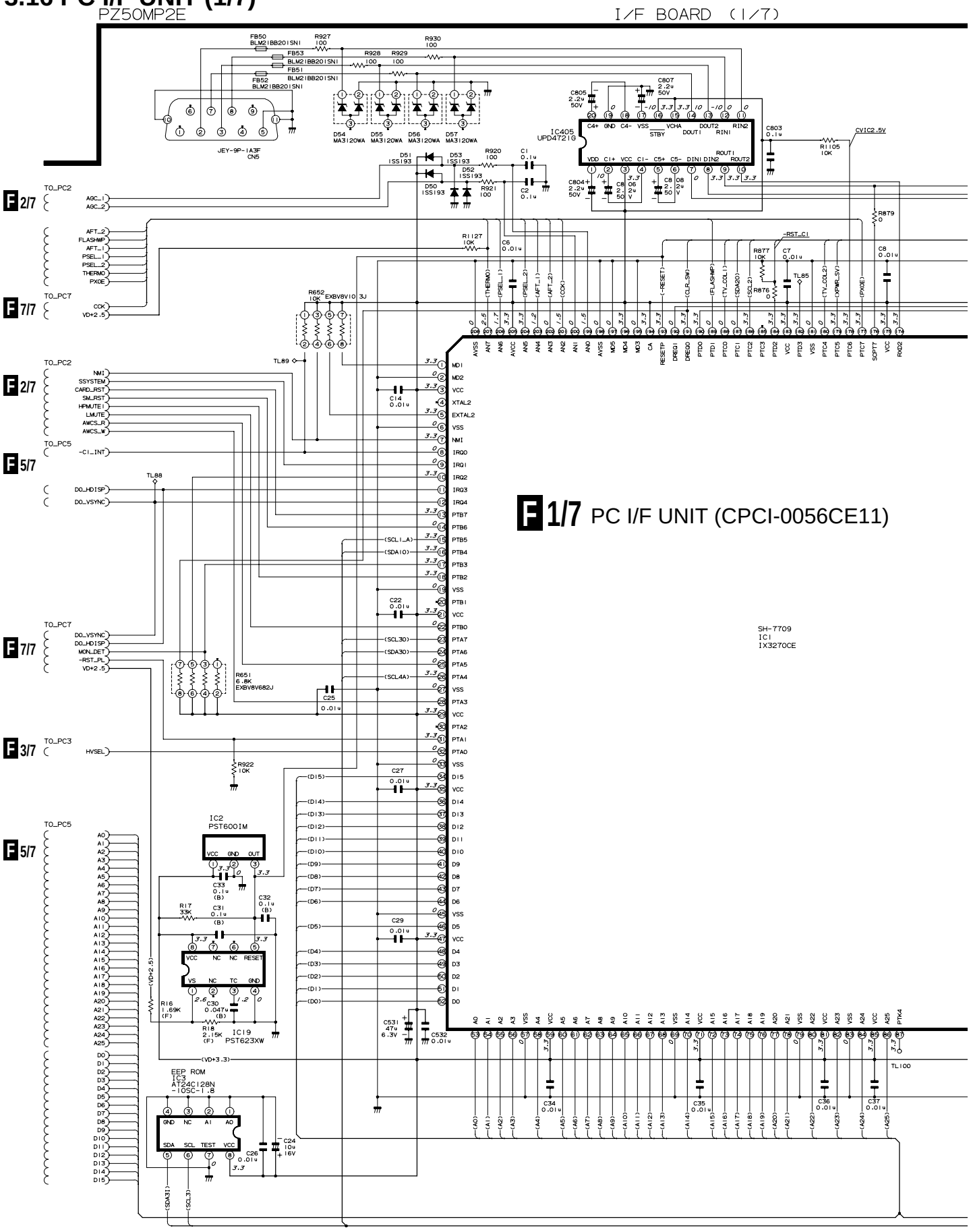
3.15 LED UNIT

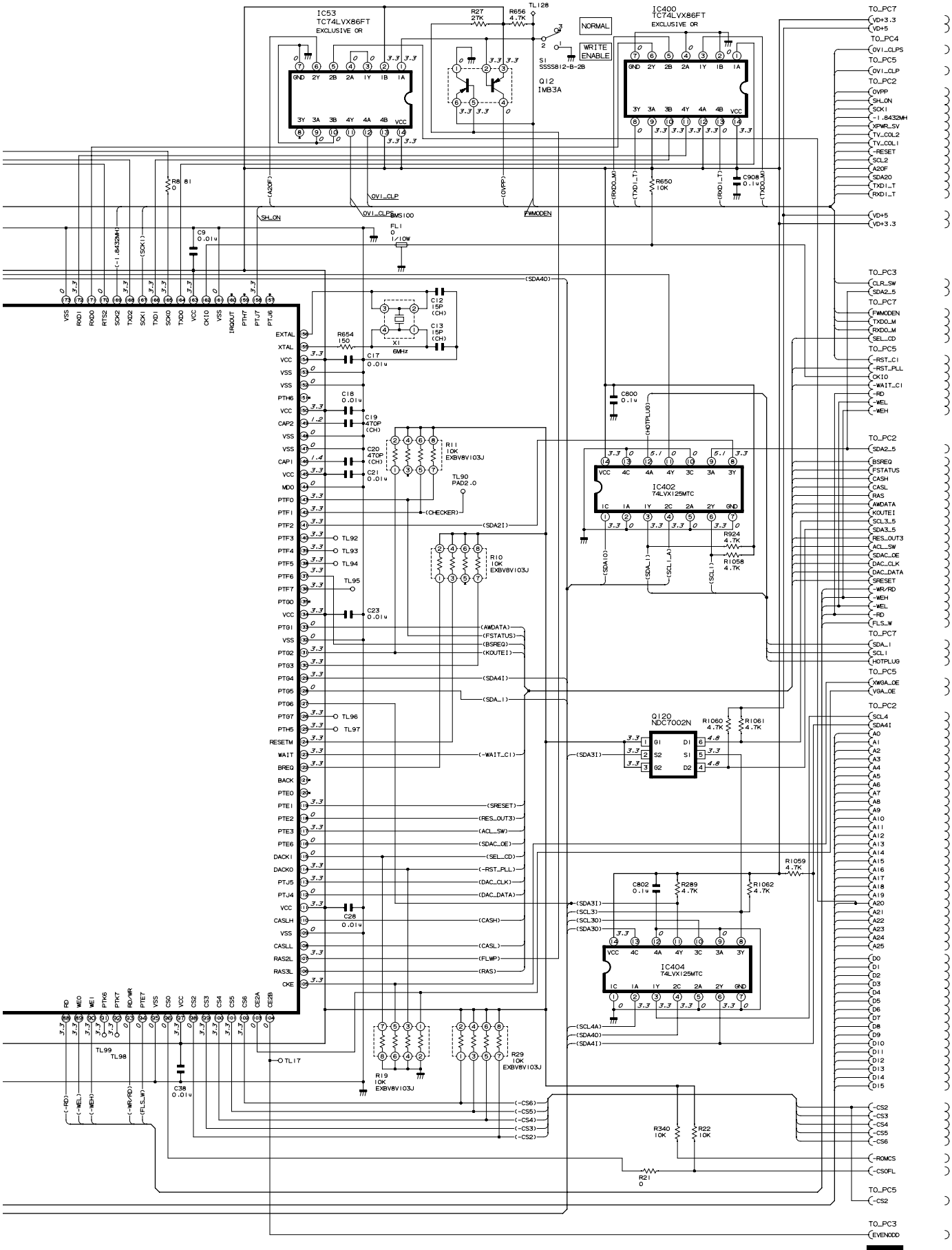
E LED UNIT (DUNTKA649DE01)

PZ50MP2E LED



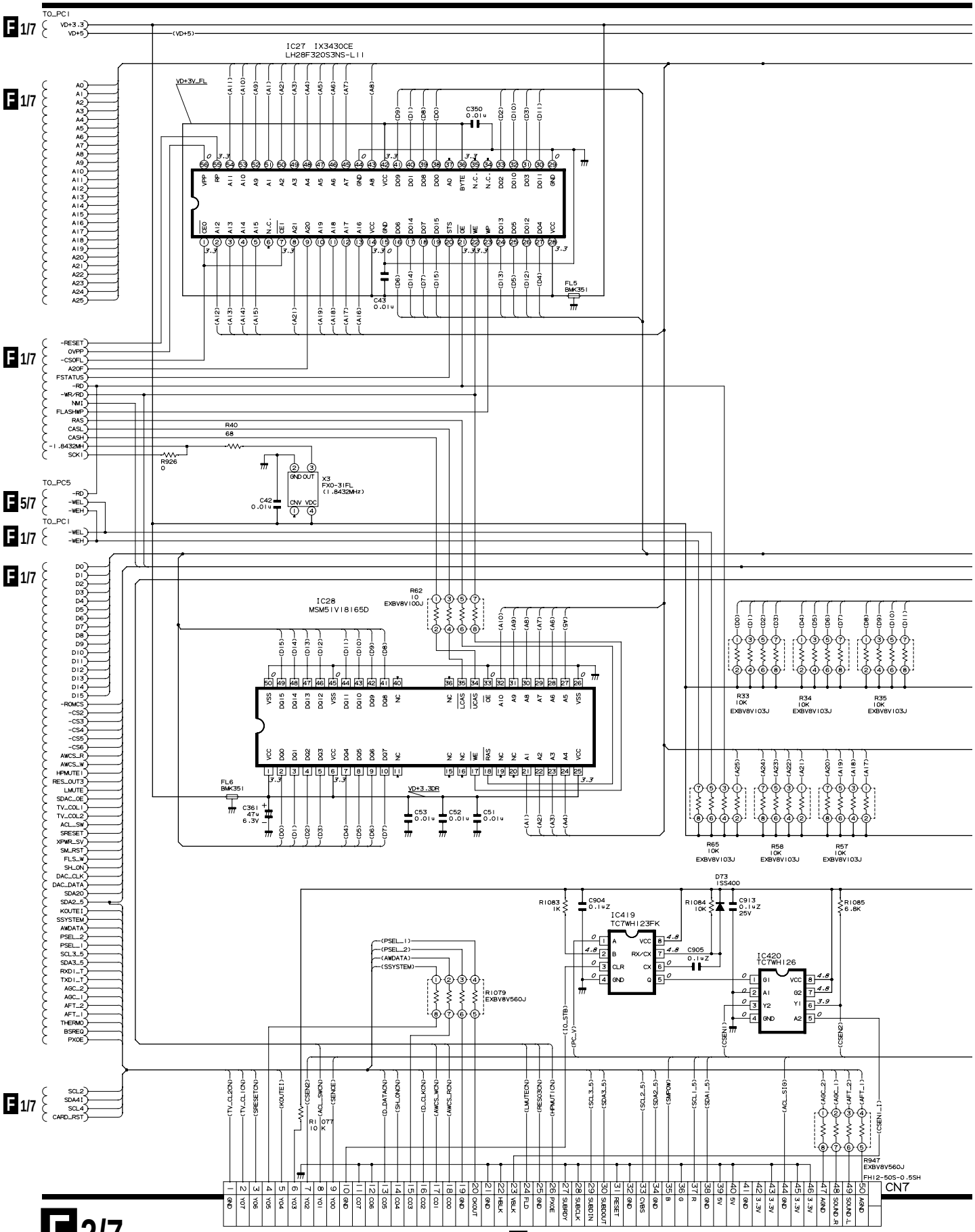
3.16 PC I/F UNIT (1/7)



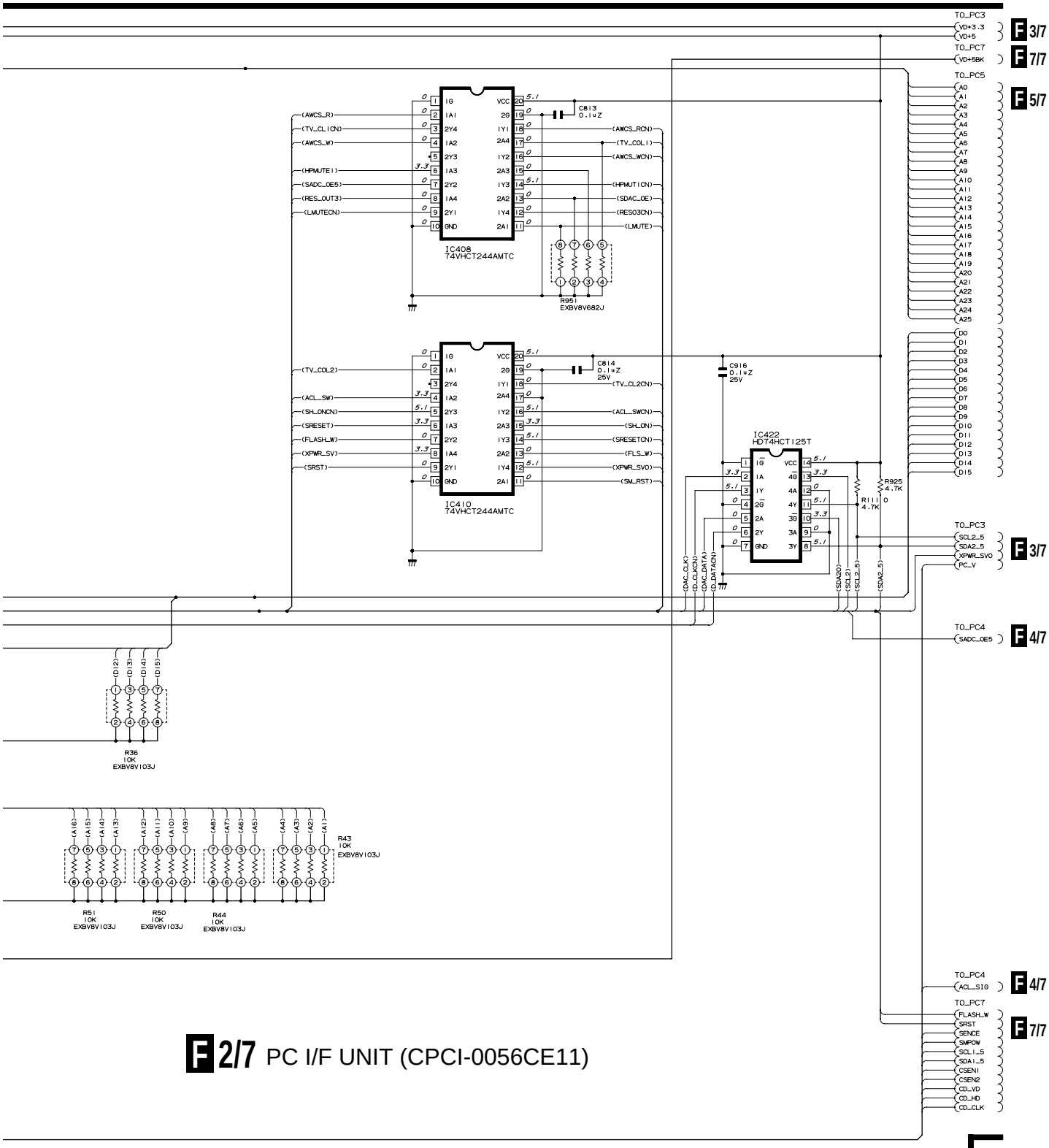

IC53
TC74LVX86FT
EXCLUSIVE OR
IC400
TC74LVX86FT
EXCLUSIVE OR
NORMAL
WRITE ENABLE
SI
SSSS812-B-2B
Q12
IMB3A
IC402
74LVX125MTC
IC404
74LVX125MTC
Q120
NDC7002N
XI
6MHz
TL90
PAD2.0
TL92
TL93
TL94
TL95
TL96
TL97
TL98
TL99
TL17
(CHECKER)
TO_PC7
TO_PC4
TO_PC5
TO_PC2
TO_PC3
F 7/7
F 4/7
F 5/7
F 2/7
F 3/7
A
B
C
D

3.17 PC I/F UNIT (2/7)

PZ50MP2E I/F BOARD (2/7)



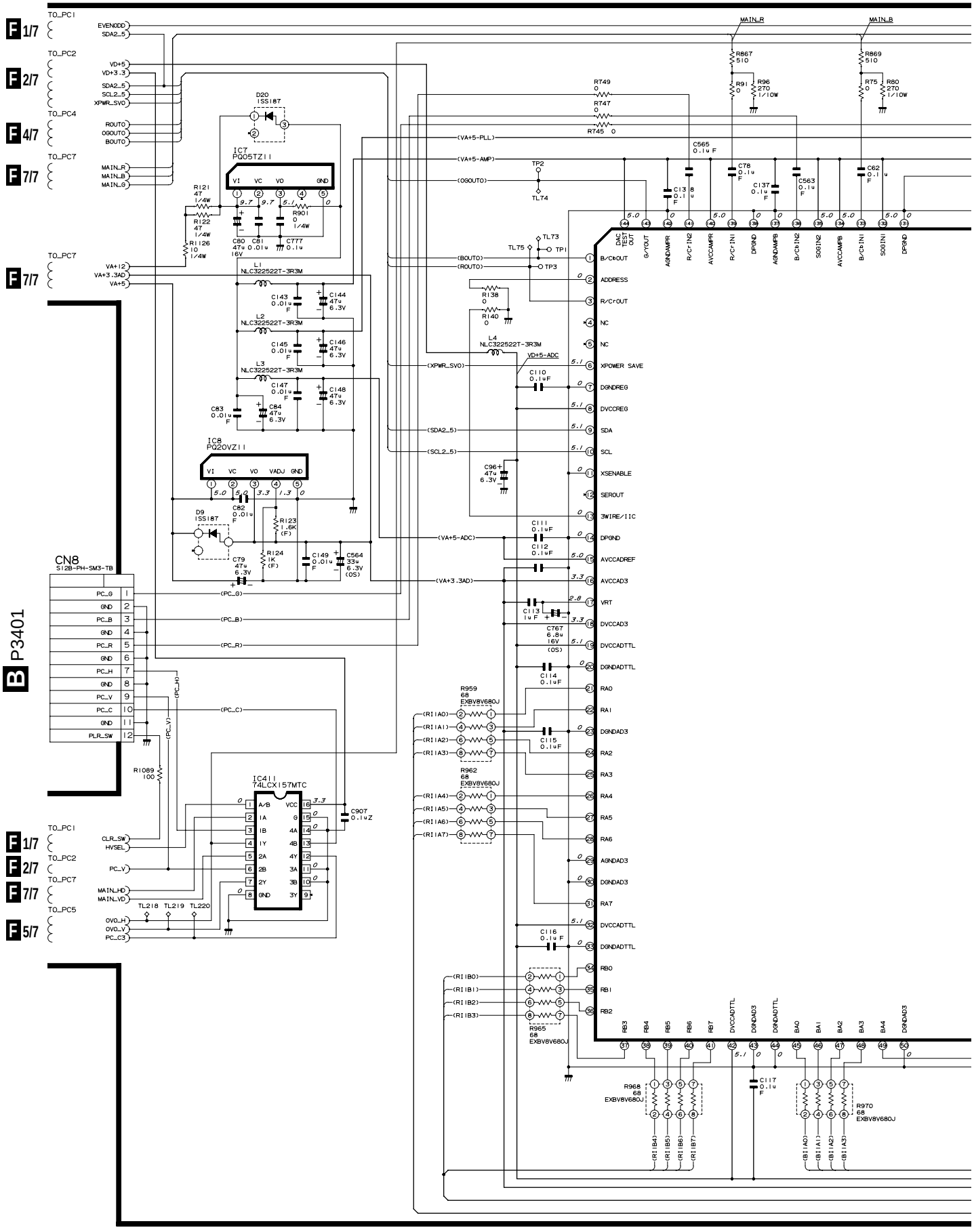
CPCI-0056CE11 CPCI-0058CE01

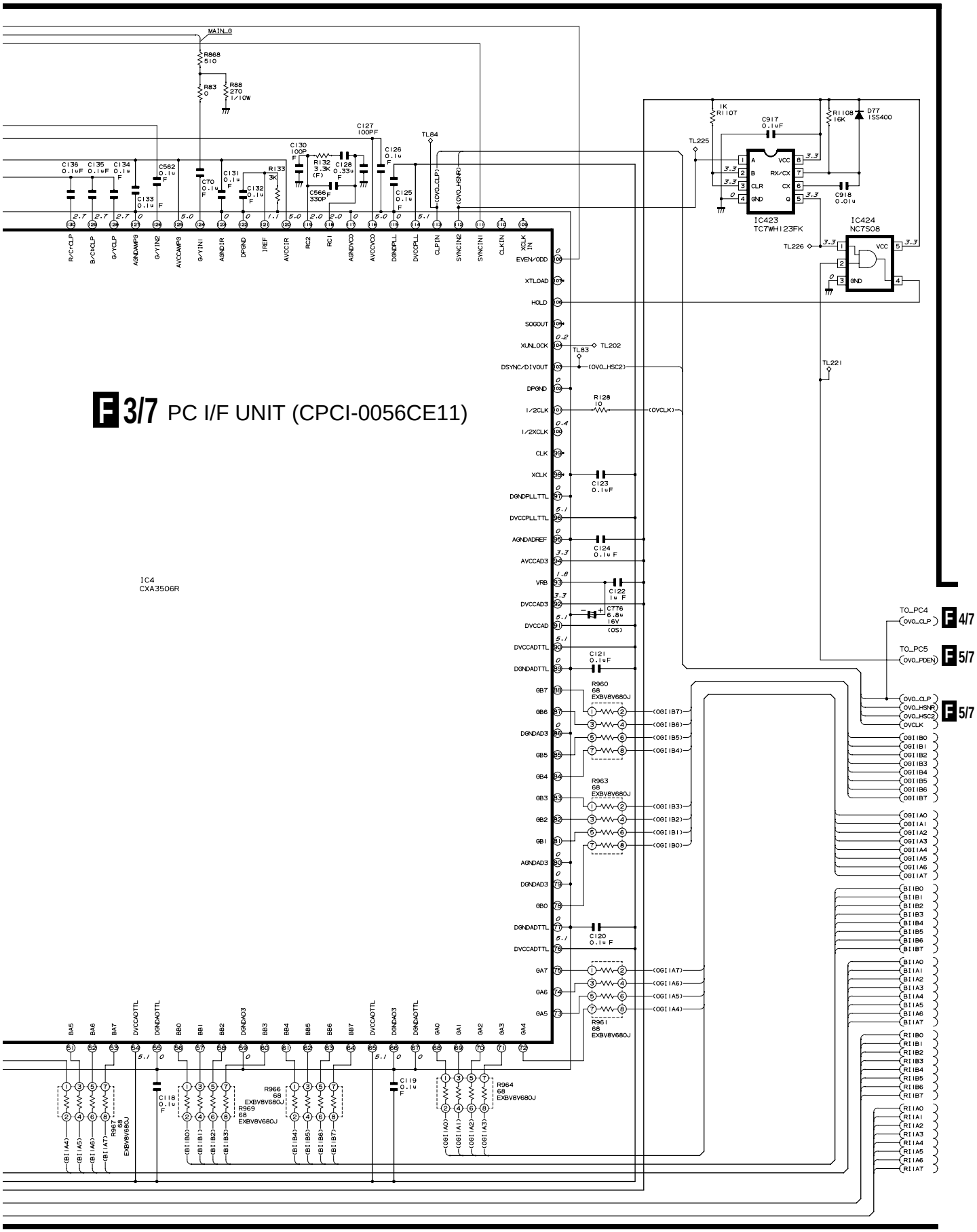


F 2/7 PC I/F UNIT (CPCI-0056CE11)

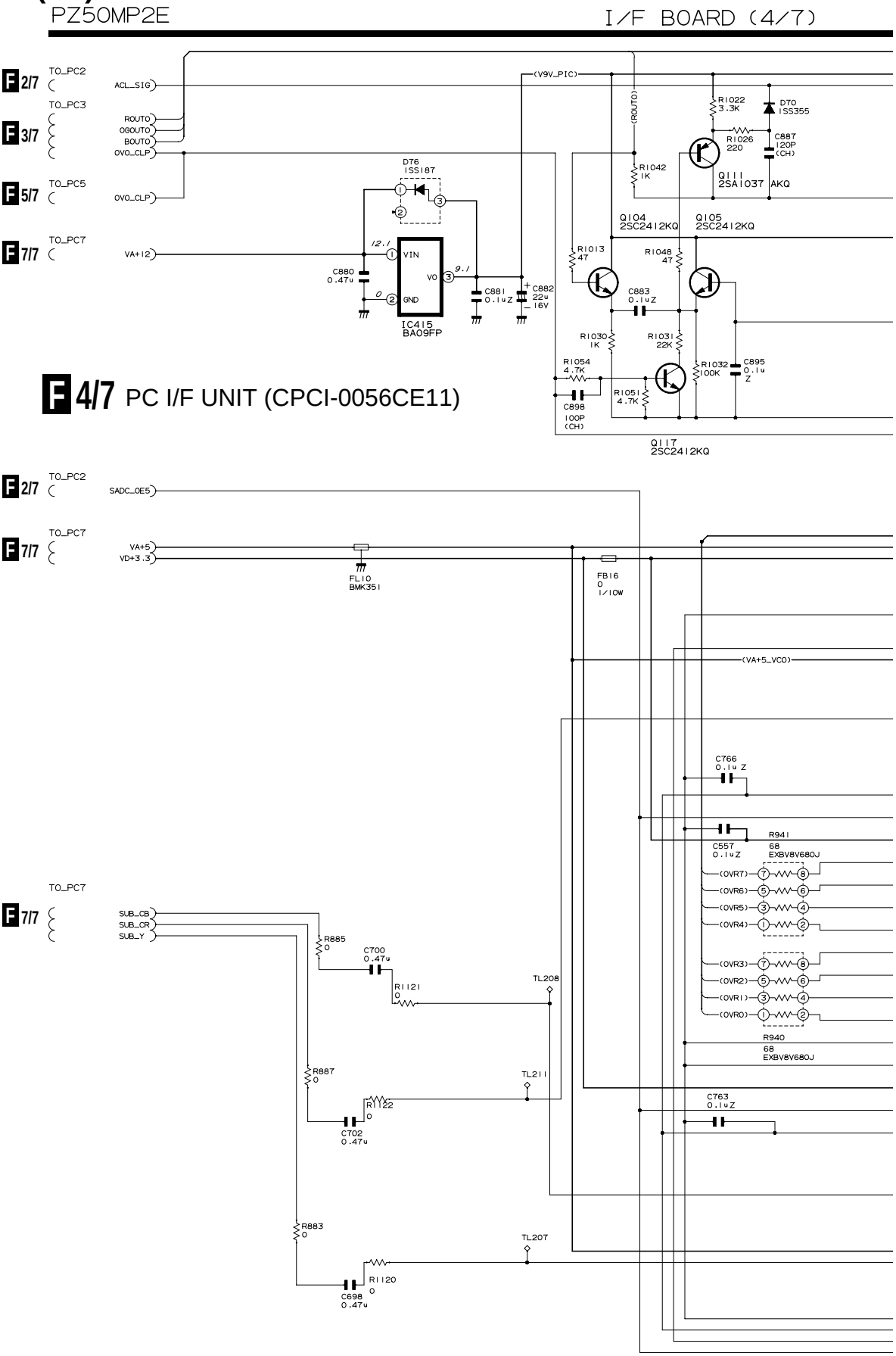
3.18 PC I/F UNIT (3/7)

PZ50MP2E I/F BOARD (3/7)

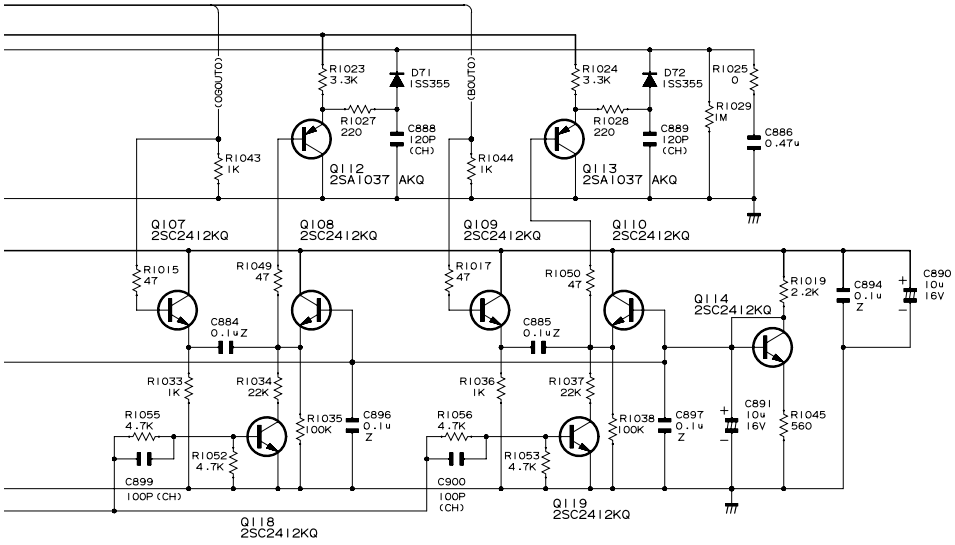


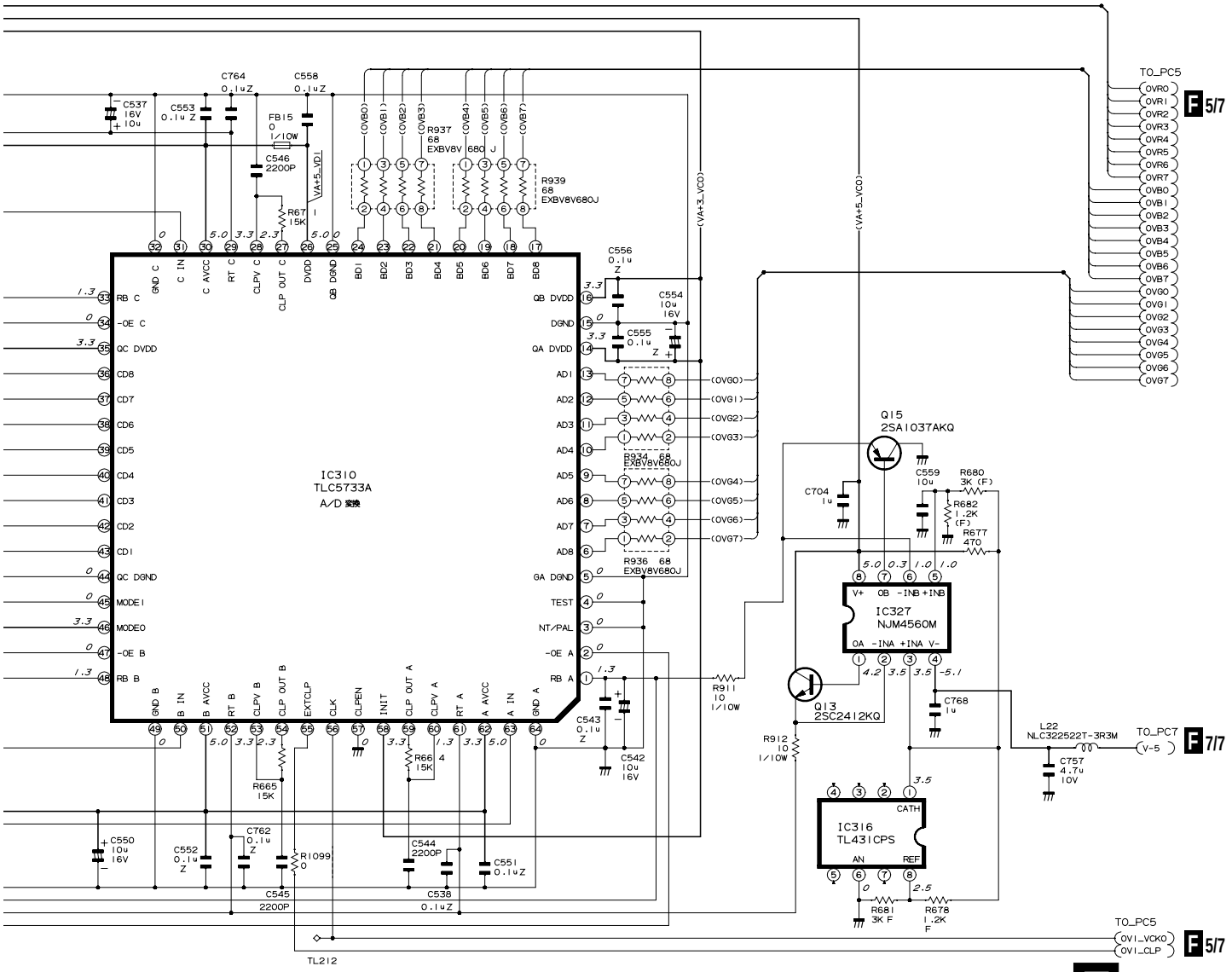

F 3/7 PC I/F UNIT (CPCI-0056CE11)
IC4
CXA3506R
IC423
TC7WH123FK
IC424
NC7S08
MAIN_G
TO_PC4 (OVO_CLP) F 4/7
TO_PC5 (OVO_PDEN) F 5/7
(OVO_CLP) F 5/7
(OVO_HSNR)
(OVO_HSC2)
(OVCLK)

3.19 PC I/F UNIT (4/7)



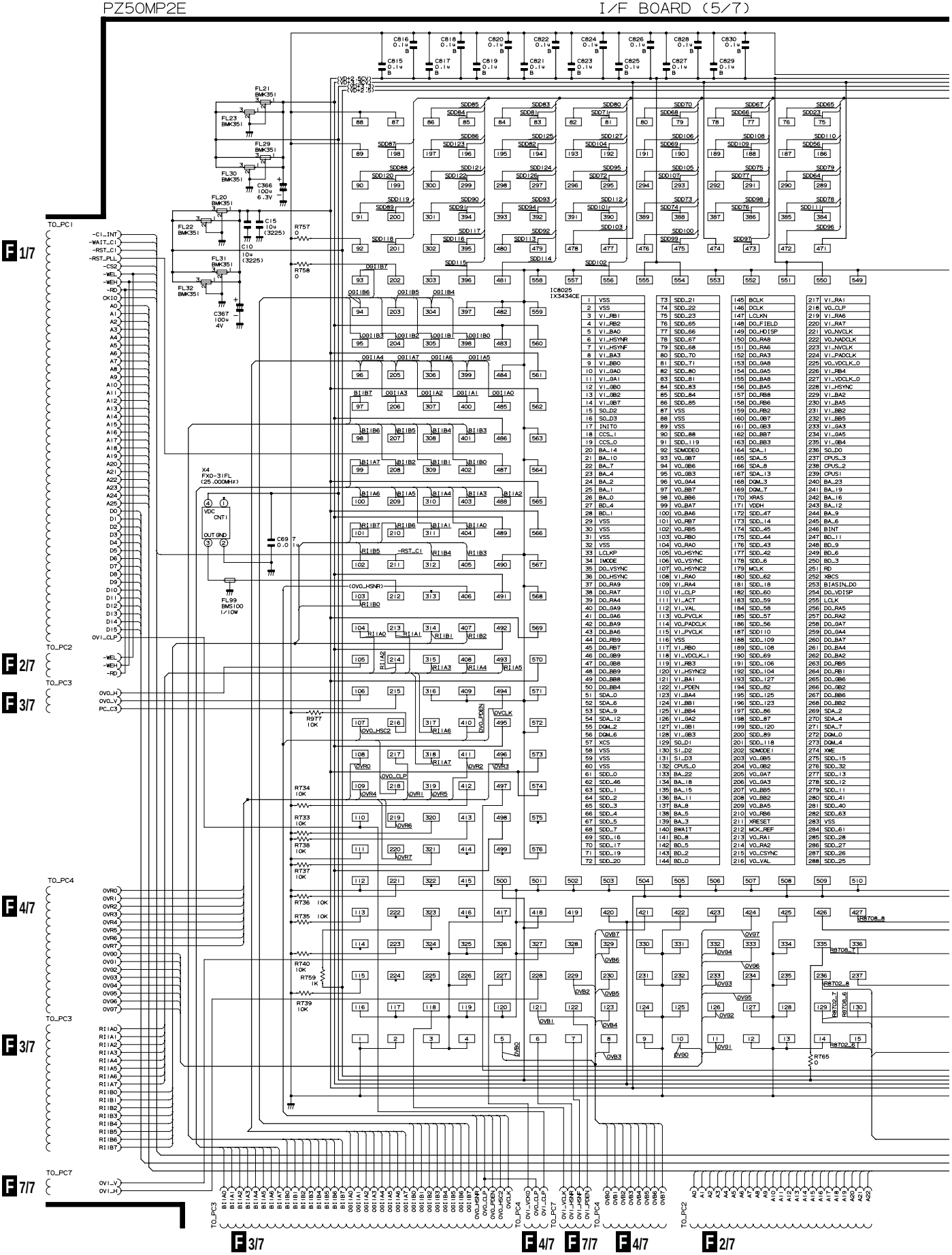
CPCI-0056CE11 CPCI-0058CE01



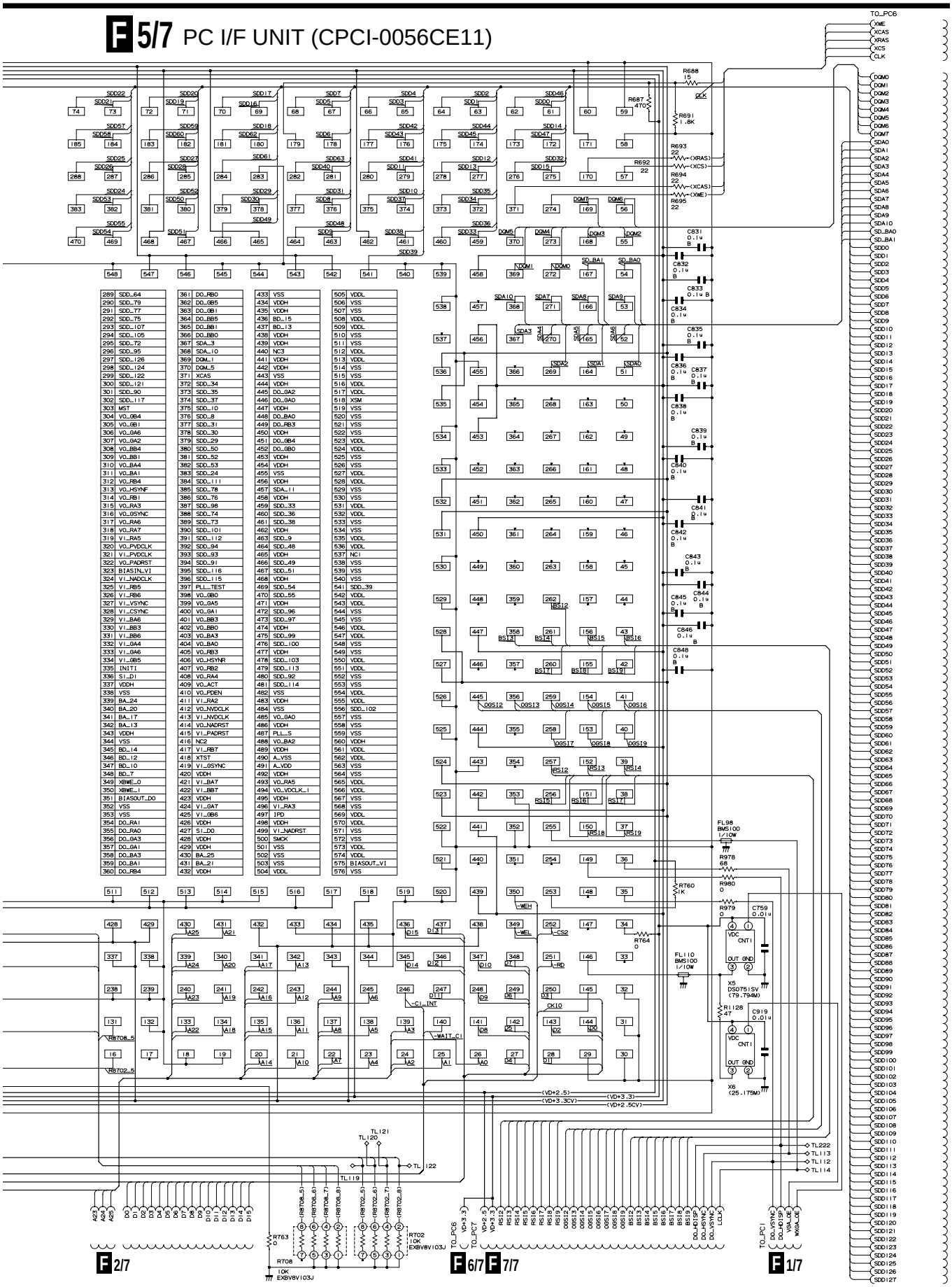


PDP-R03E

3.20 PC I/F UNIT (5/7)

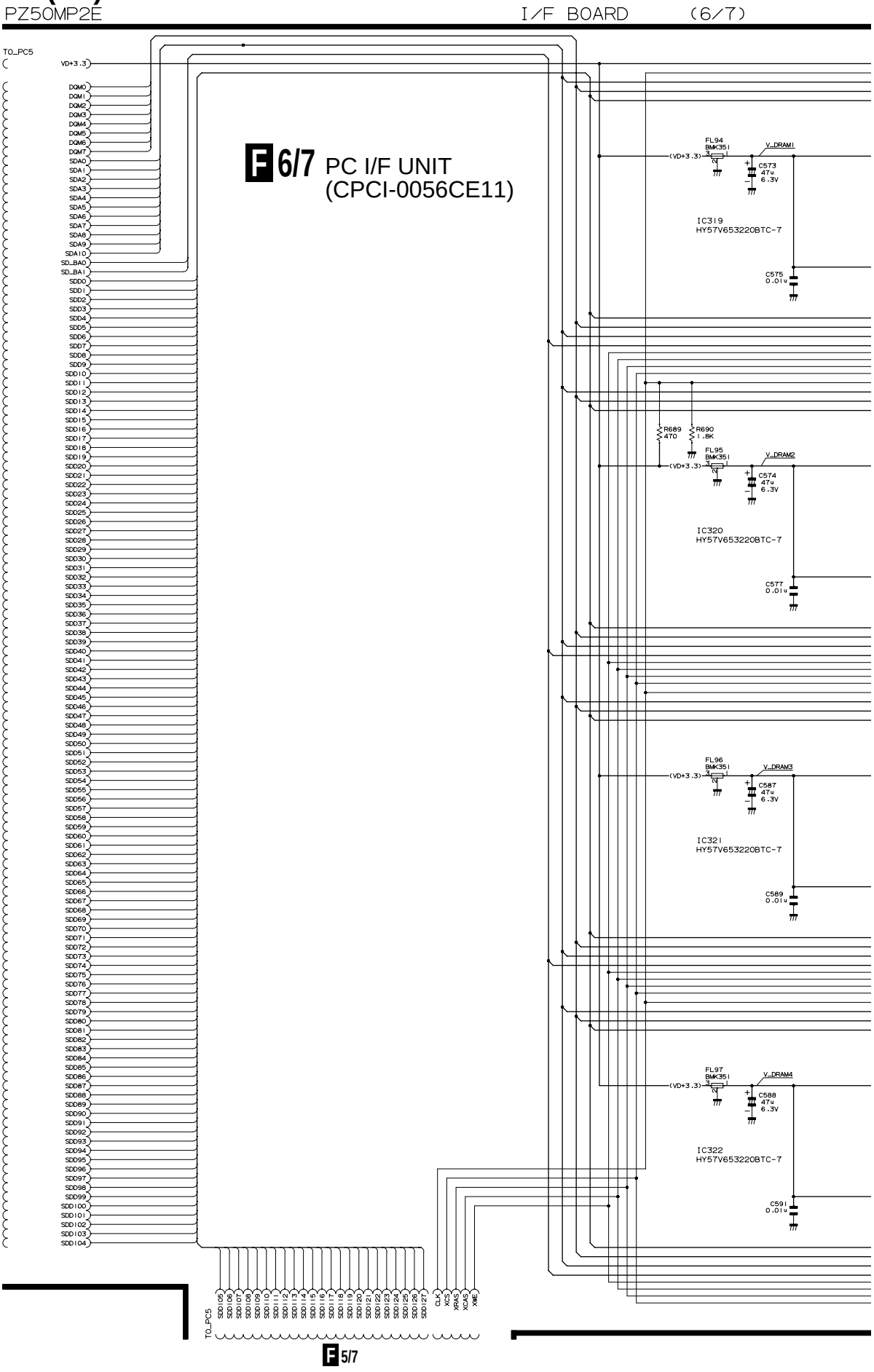


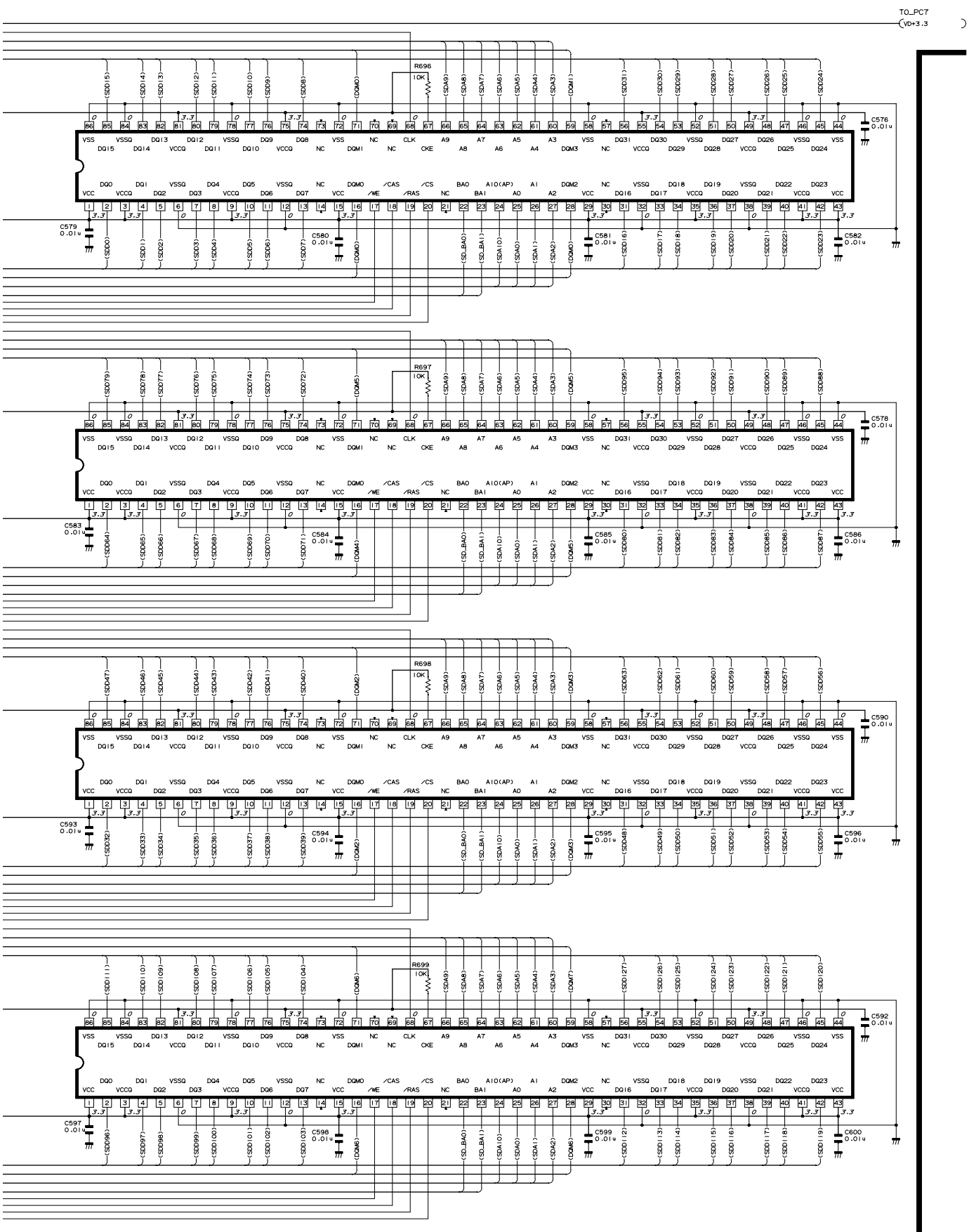
F 5/7 PC I/F UNIT (CPCI-0056CE11)



289 SDD_64	361 DO_RB0	433 VSS	505 VDDL
290 SDD_79	362 DO_GB5	434 VDDH	506 VSS
291 SDD_77	363 DO_GB1	435 VDDH	507 VSS
292 SDD_75	364 DO_BB5	436 BD_15	508 VDDL
293 SDD_107	365 DO_BB1	437 BD_13	509 VDDL
294 SDD_105	366 DO_BB0	438 VDDH	510 VSS
295 SDD_72	367 SDA_3	439 VDDH	511 VSS
296 SDD_95	368 SDA_10	440 NC3	512 VDDL
297 SDD_126	369 DQM_1	441 VDDH	513 VDDL
298 SDD_124	370 DQM_5	442 VDDH	514 VSS
299 SDD_122	371 XCAS	443 VSS	515 VSS
300 SDD_121	372 SDD_34	444 VDDH	516 VDDL
301 SDD_90	373 SDD_35	445 DO_GA2	517 VDDL
302 SDD_117	374 SDD_37	446 DO_GA0	518 XSM
303 MST	375 SDD_10	447 VDDH	519 VSS
304 VO_GB4	376 SDD_8	448 DO_BA0	520 VSS
305 VO_GB1	377 SDD_31	449 DO_RB3	521 VSS
306 VO_GA6	378 SDD_30	450 VDDH	522 VSS
307 VO_GA2	379 SDD_29	451 DO_GB4	523 VDDL
308 VO_BB4	380 SDD_50	452 DO_GB0	524 VDDL
309 VO_BB1	381 SDD_52	453 VDDH	525 VSS
310 VO_BA4	382 SDD_53	454 VDDH	526 VSS
311 VO_BA1	383 SDD_24	455 VSS	527 VDDL
312 VO_RB4	384 SDD_111	456 VDDH	528 VDDL
313 VO_HSYNF	385 SDD_78	457 SDA_11	529 VSS
314 VO_RB1	386 SDD_76	458 VDDH	530 VSS
315 VO_RA3	387 SDD_98	459 SDD_33	531 VDDL
316 VO_GSYNC	388 SDD_74	460 SDD_36	532 VDDL
317 VO_RA6	389 SDD_73	461 SDD_38	533 VSS
318 VO_RA7	390 SDD_101	462 VDDH	534 VSS
319 VI_RA5	391 SDD_112	463 SDD_9	535 VDDL
320 VO_PVDCLK	392 SDD_94	464 SDD_48	536 VDDL
321 VI_PVDCLK	393 SDD_93	465 VDDH	537 NC1
322 VO_PADRST	394 SDD_91	466 SDD_49	538 VSS
323 BIASIN_VI	395 SDD_116	467 SDD_51	539 VSS
324 VI_NADCLK	396 SDD_115	468 VDDH	540 VSS
325 VI_RB5	397 PLL_TEST	469 SDD_54	541 SDD_39
326 VI_RB6	398 VO_GB0	470 SDD_55	542 VDDL
327 VI_VSYNC	399 VO_GA5	471 VDDH	543 VDDL
328 VI_CSYNC	400 VO_GA1	472 SDD_96	544 VSS
329 VI_BA6	401 VO_BB3	473 SDD_97	545 VSS
330 VI_BB3	402 VO_BB0	474 VDDH	546 VDDL
331 VI_BB6	403 VO_BA3	475 SDD_99	547 VDDL
332 VI_BA4	404 VO_BA0	476 SDD_100	548 VSS
333 VI_GA6	405 VO_RB3	477 VDDH	549 VSS
334 VI_GB5	406 VO_HSYNR	478 SDD_103	550 VDDL
335 INITI	407 VO_RB2	479 SDD_113	551 VDDL
336 SI_DI	408 VO_RA4	480 SDD_92	552 VSS
337 VDDH	409 VO_ACT	481 SDD_114	553 VSS
338 VSS	410 VO_PDEN	482 VSS	554 VDDL
339 BA_24	411 VI_RA2	483 VDDH	555 VDDL
340 BA_20	412 VO_NVDCLK	484 VSS	556 SDD_102
341 BA_17	413 VI_NVDCLK	485 VO_GA0	557 VSS
342 BA_13	414 VO_NADRST	486 VDDH	558 VSS
343 VDDH	415 VI_PADRST	487 PLL_5	559 VSS
344 VSS	416 NC2	488 VO_BA2	560 VDDH
345 BD_14	417 VI_RB7	489 VDDH	561 VDDL
346 BD_12	418 XTST	490 A_VSS	562 VDDL
347 BD_10	419 VI_GSYNC	491 A_VDD	563 VSS
348 BD_7	420 VDDH	492 VDDH	564 VSS
349 XBWE_0	421 VI_BA7	493 VO_RA5	565 VDDL
350 XBWE_1	422 VI_BB7	494 VO_VDCLK_I	566 VDDL
351 BIASOUT_DO	423 VDDH	495 VDDH	567 VSS
352 VSS	424 VI_GA7	496 VI_RA3	568 VSS
353 VSS	425 VI_GB6	497 IPD	569 VDDL
354 DO_RA1	426 VDDH	498 VDDH	570 VDDL
355 DO_RA0	427 SI_DO	499 VI_NADRST	571 VSS
356 DO_GA3	428 VDDH	500 SMOX	572 VSS
357 DO_GA1	429 VDDH	501 VSS	573 VDDL
358 DO_BA3	430 BA_25	502 VSS	574 VDDL
359 DO_BA1	431 BA_21	503 VSS	575 BIASOUT_VI
360 DO_RB4	432 VDDH	504 VDDL	576 VSS

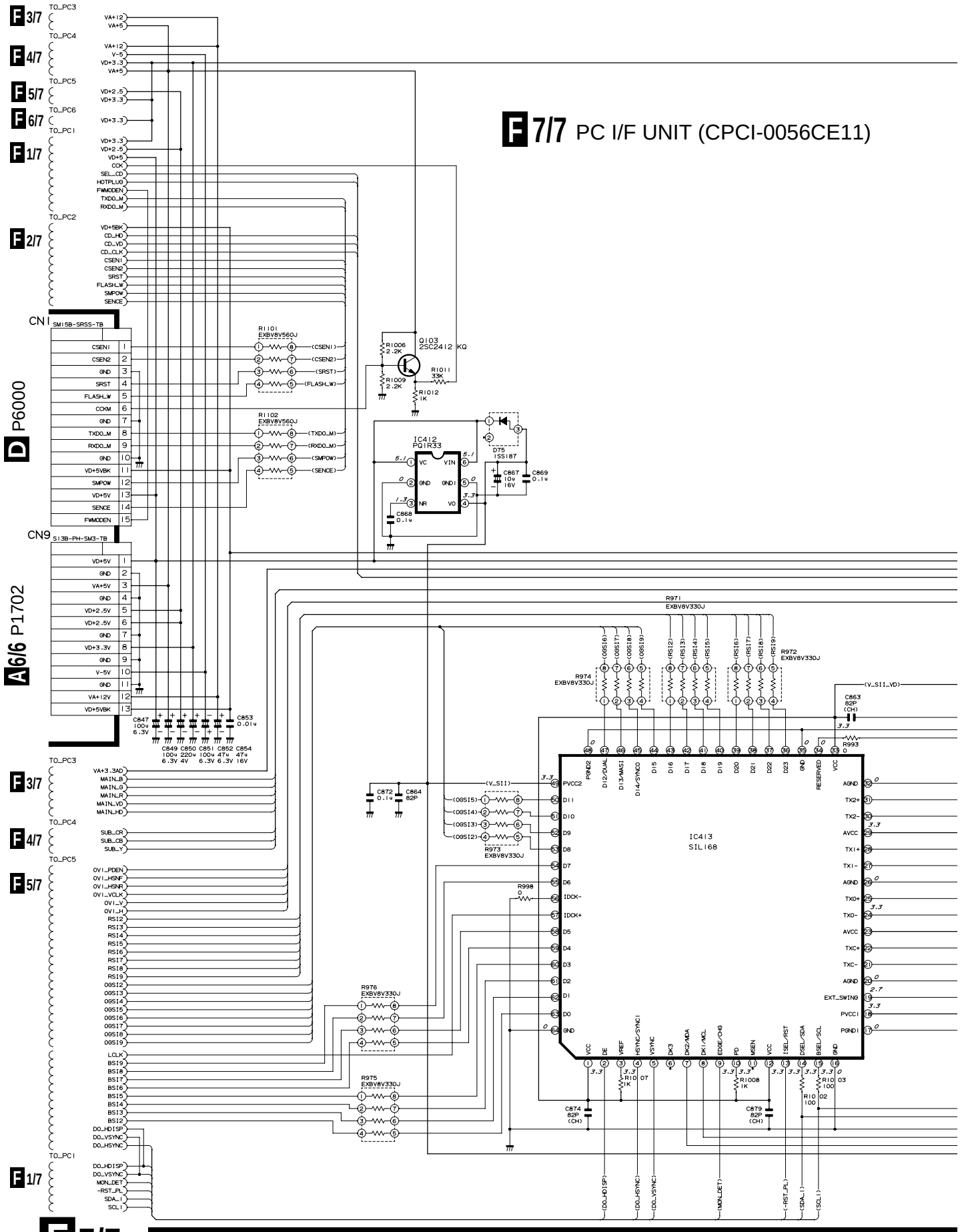
3.21 PC I/F UNIT (6/7)



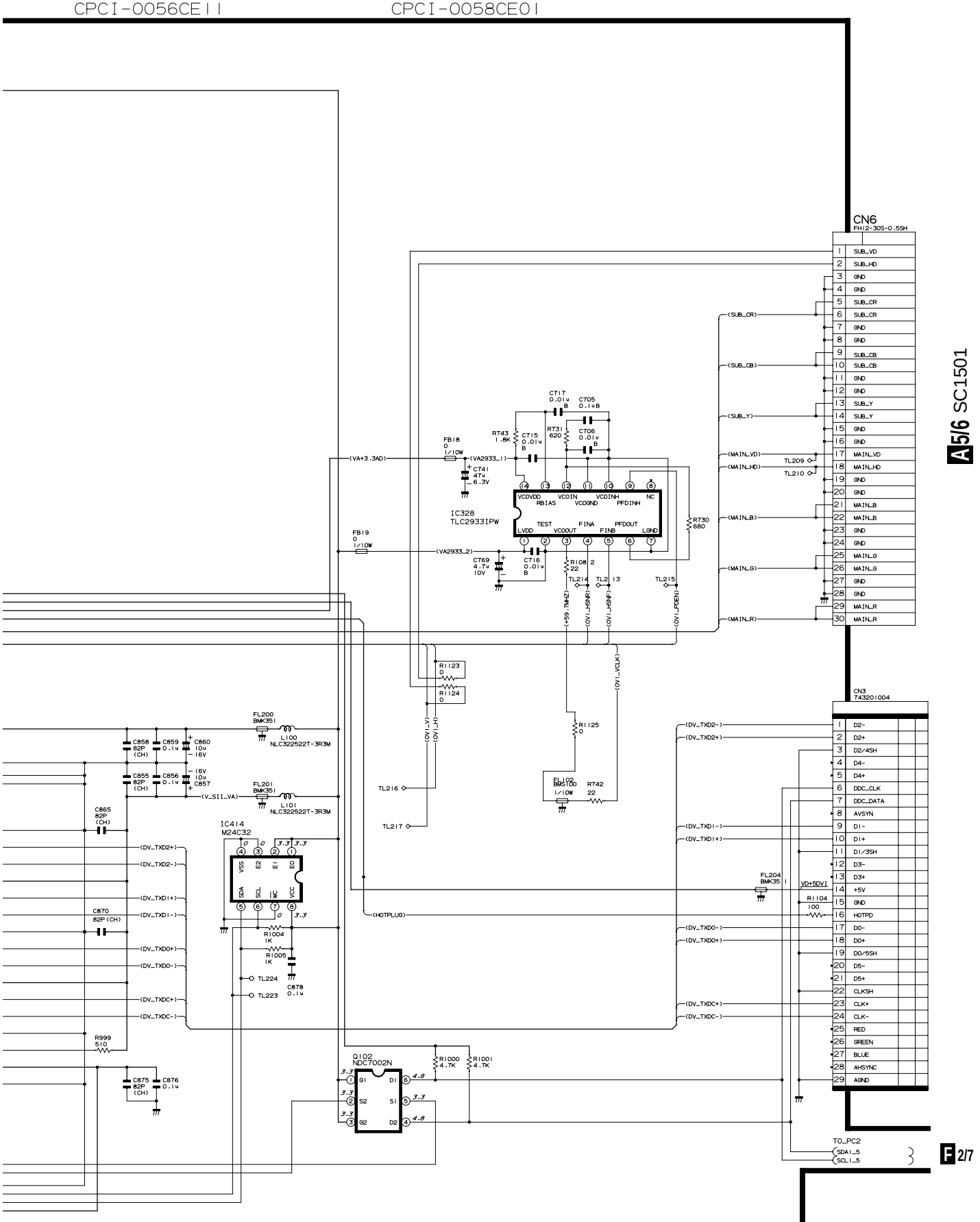

TO_PC7
VD+3.3
F 7/7
R696
10K
R697
10K
R698
10K
R699
10K
C576 0.01u
C578 0.01u
C590 0.01u
C592 0.01u
C579 0.01u
C580 0.01u
C581 0.01u
C582 0.01u
C583 0.01u
C584 0.01u
C585 0.01u
C586 0.01u
C593 0.01u
C594 0.01u
C595 0.01u
C596 0.01u
C597 0.01u
C598 0.01u
C599 0.01u
C600 0.01u

3.22 PC I/F UNIT (7/7)

F 7/7 PC I/F UNIT (CPCI-0056CE11)



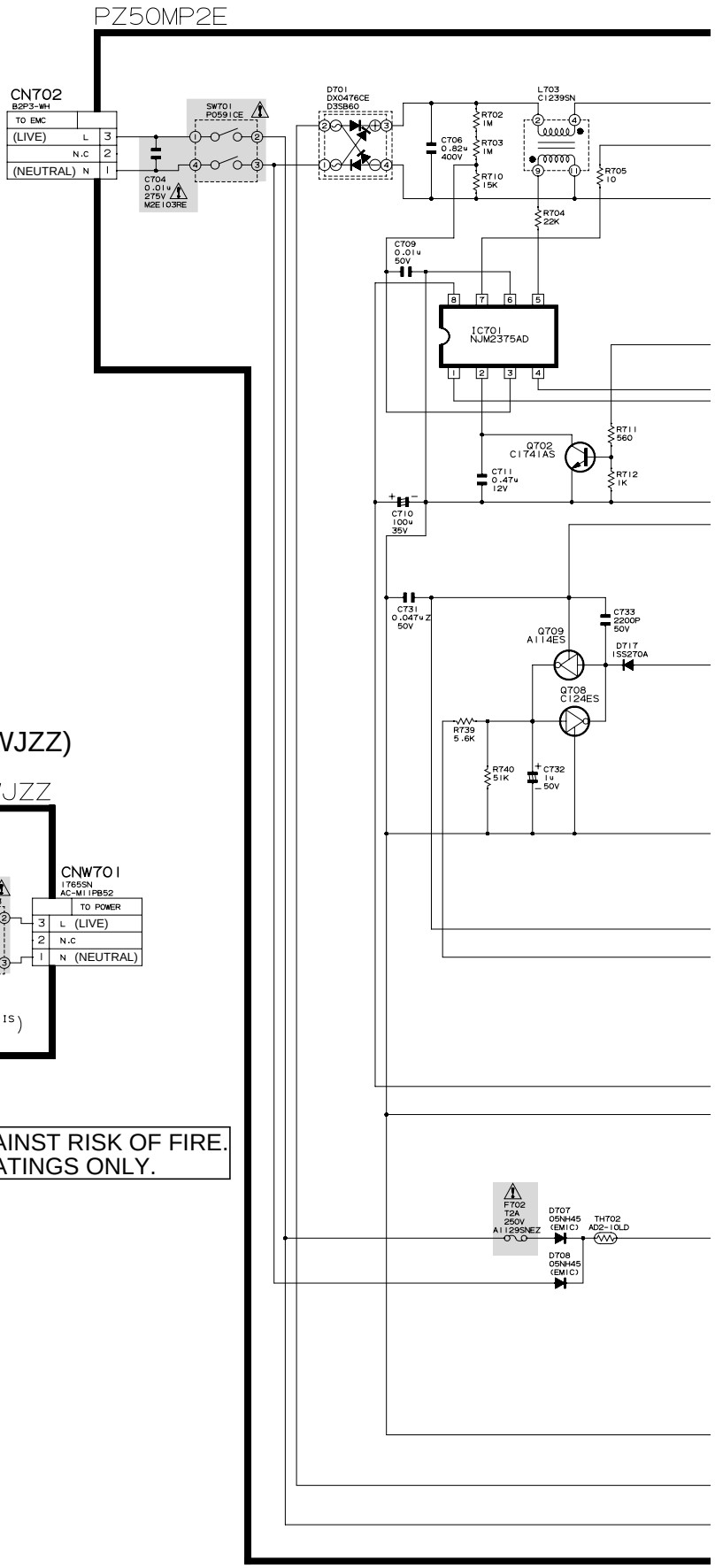
CPCI-0056CE11 CPCI-0058CE01



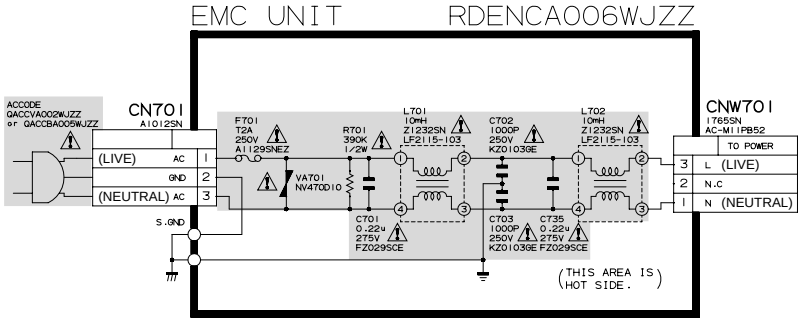
A5/6 SC1501

F 2/7

3.23 POWER and EMC UNITS



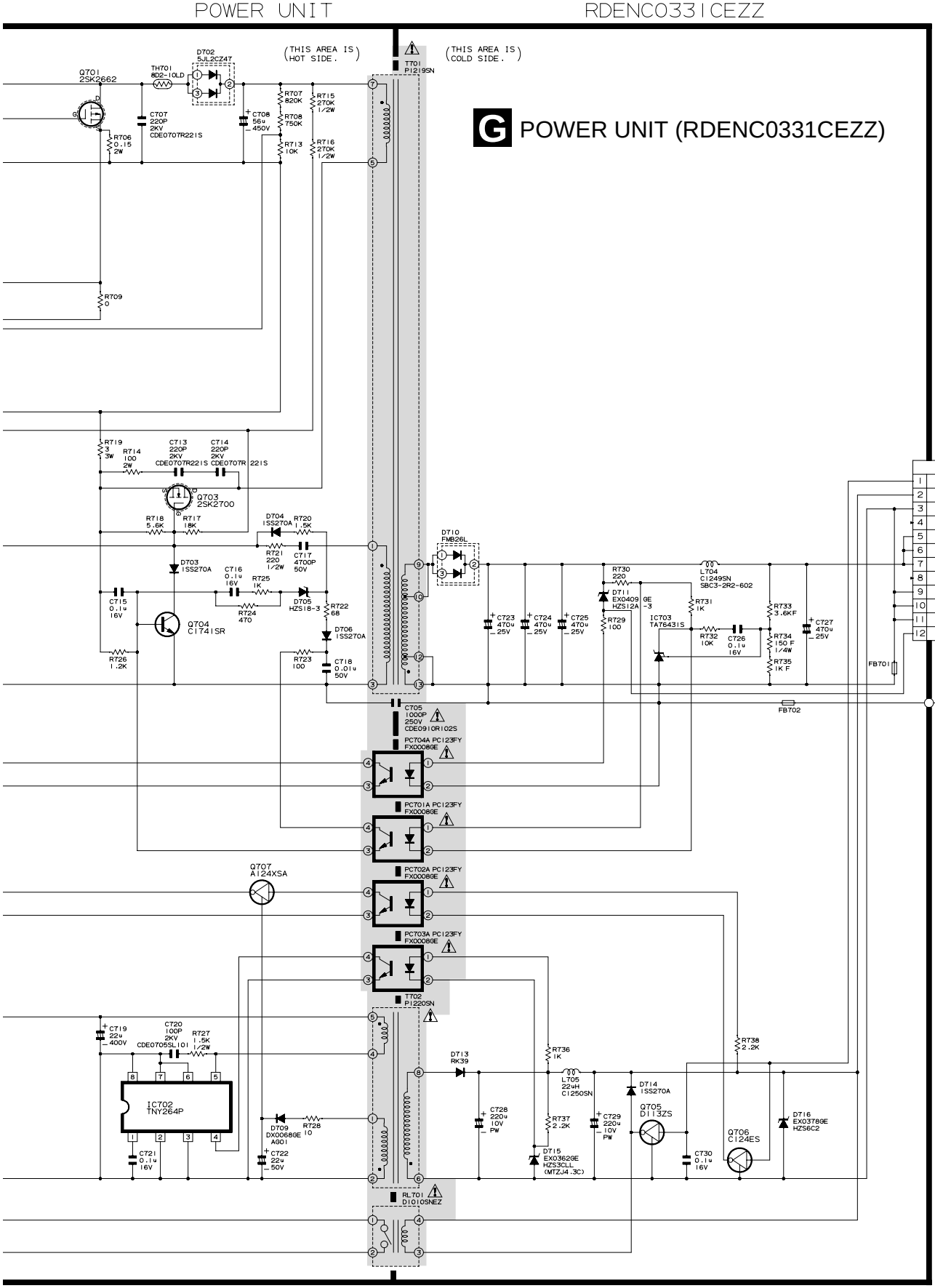
H EMC UNIT (RDENCA006WJZZ)



• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

POWER UNIT RDENC0331CEZZ



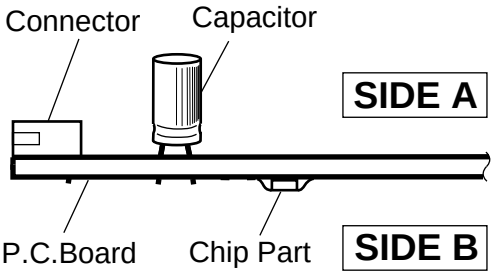
A5/6 P1502

4. PCB CONNECTION DIAGRAM

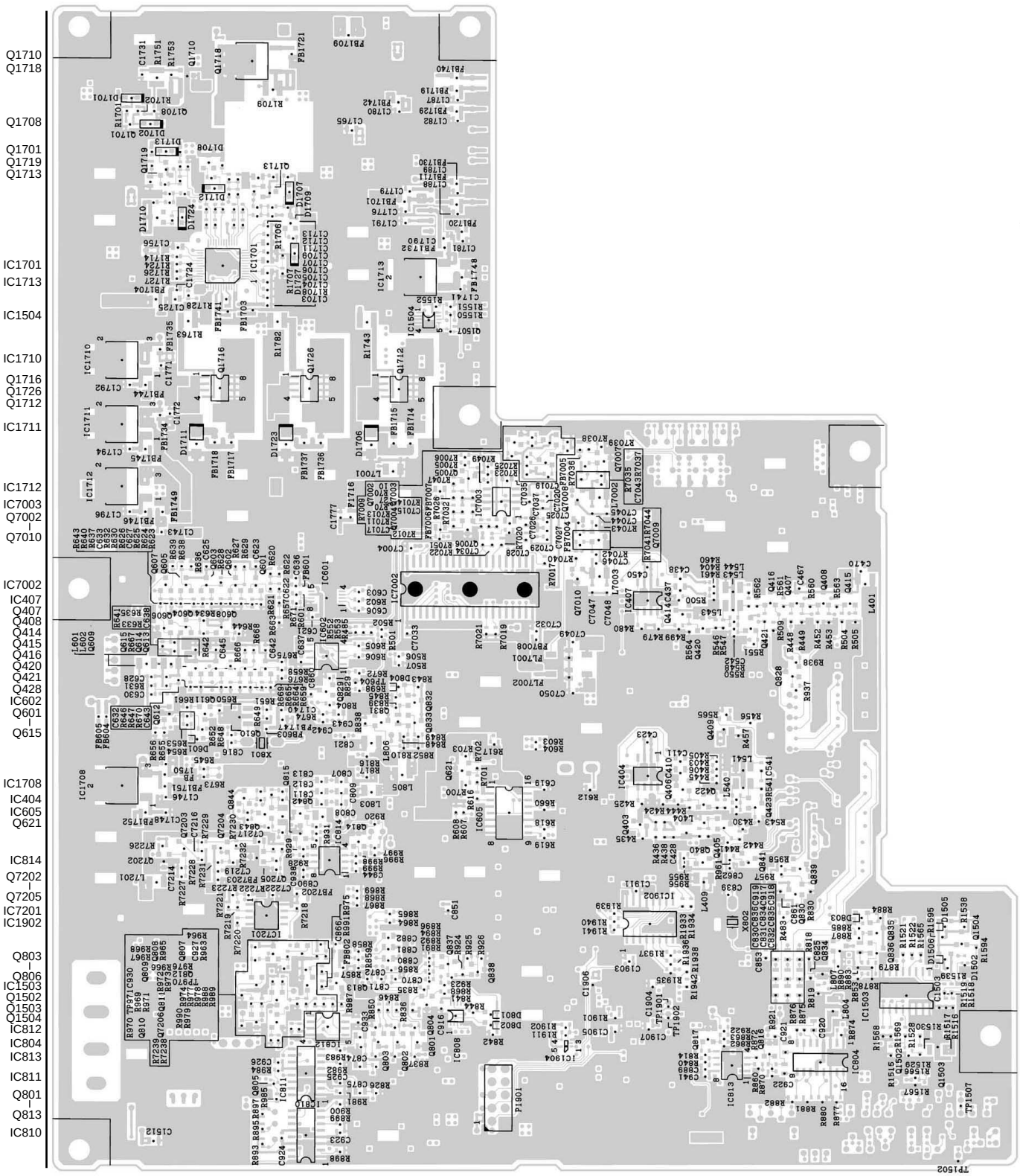
4.1 MAIN UNIT

NOTE FOR PCB DIAGRAMS :

- Part numbers in PCB diagrams match those in the schematic diagrams.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.
- View point of PCB diagrams.



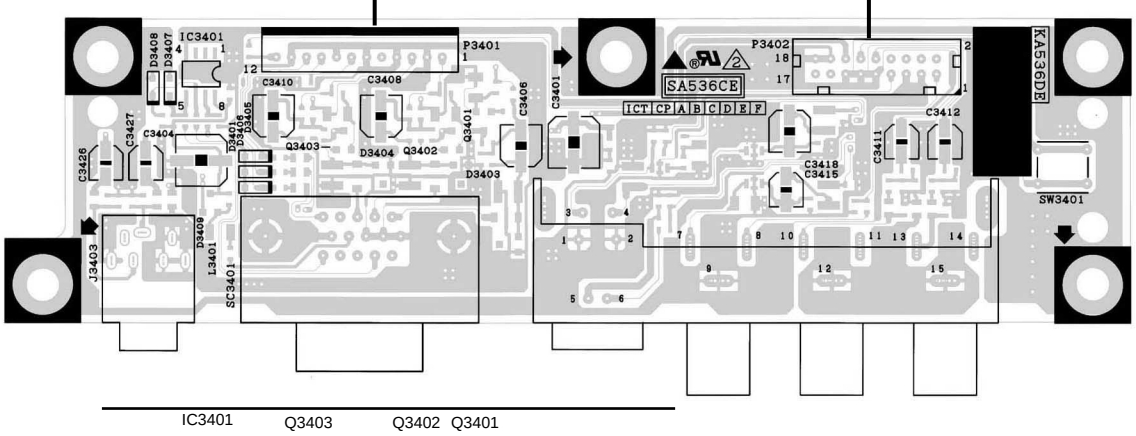
A MAIN UNIT



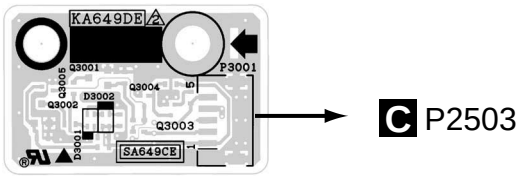
SIDE B

4.2 FRONT, LED and SR CONNECT UNITS

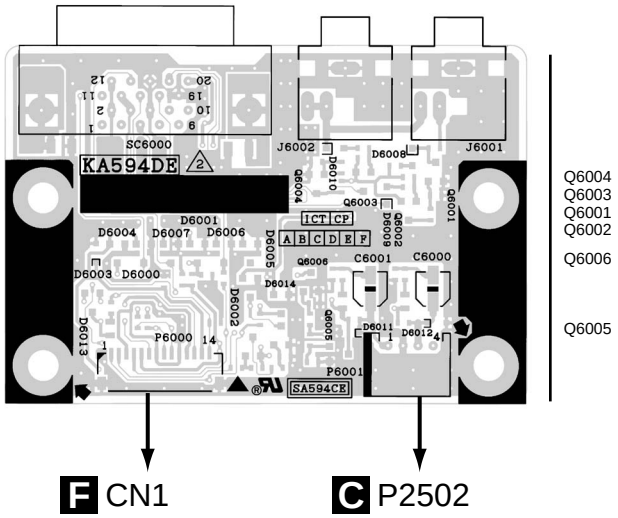
B FRONT UNIT



E LED UNIT



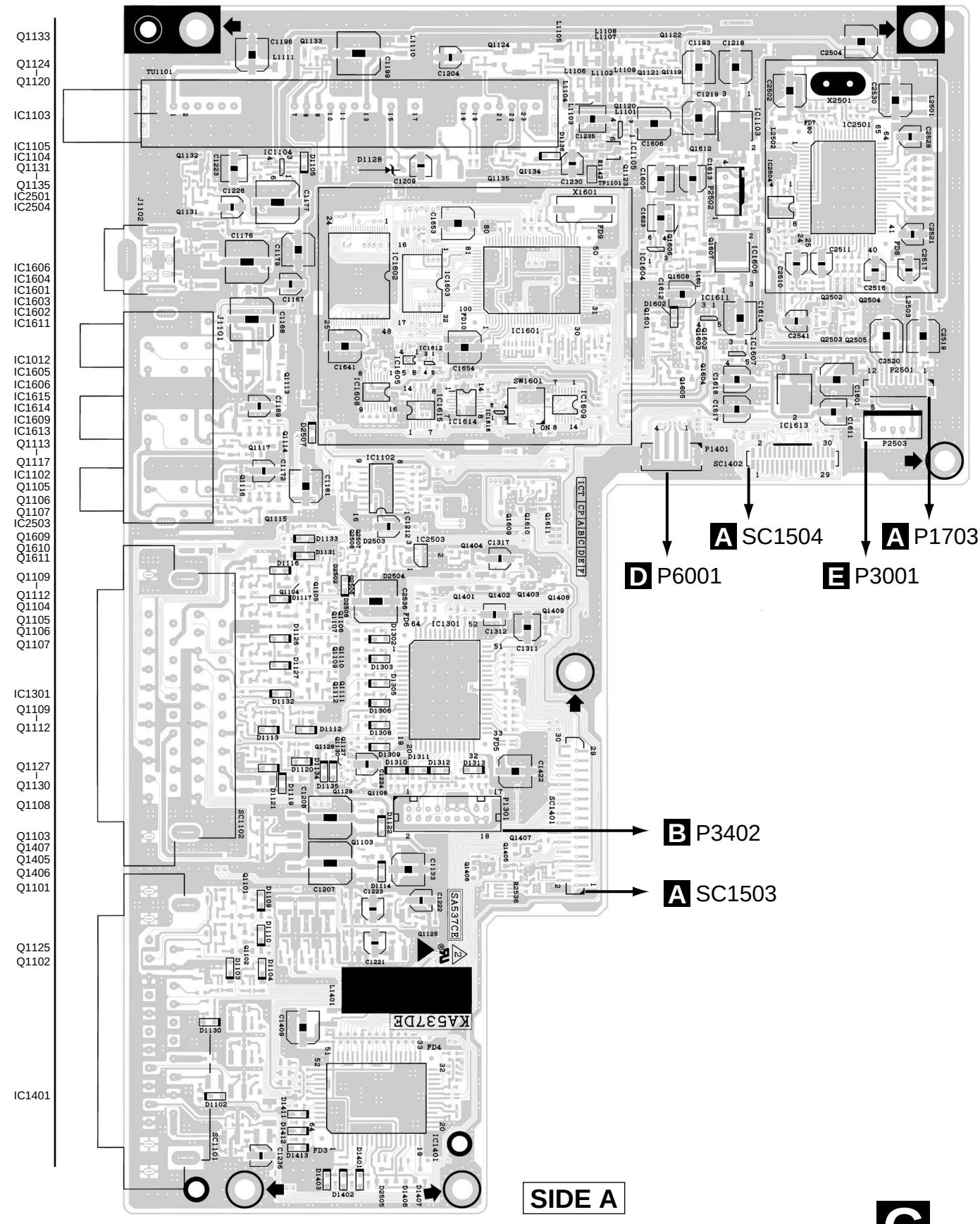
D SR CONNECT UNIT



SIDE A

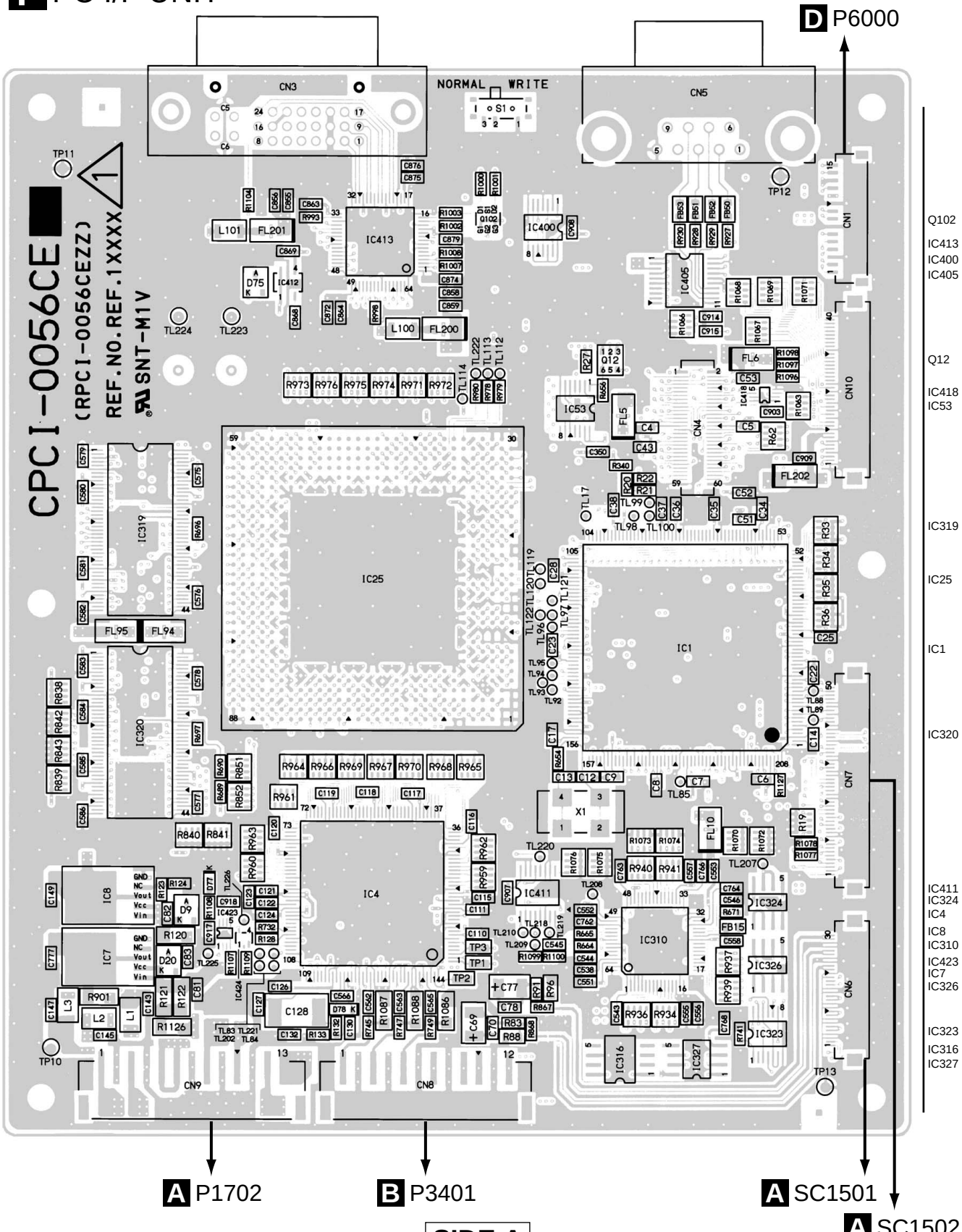
4.3 AV UNIT

C AV UNIT



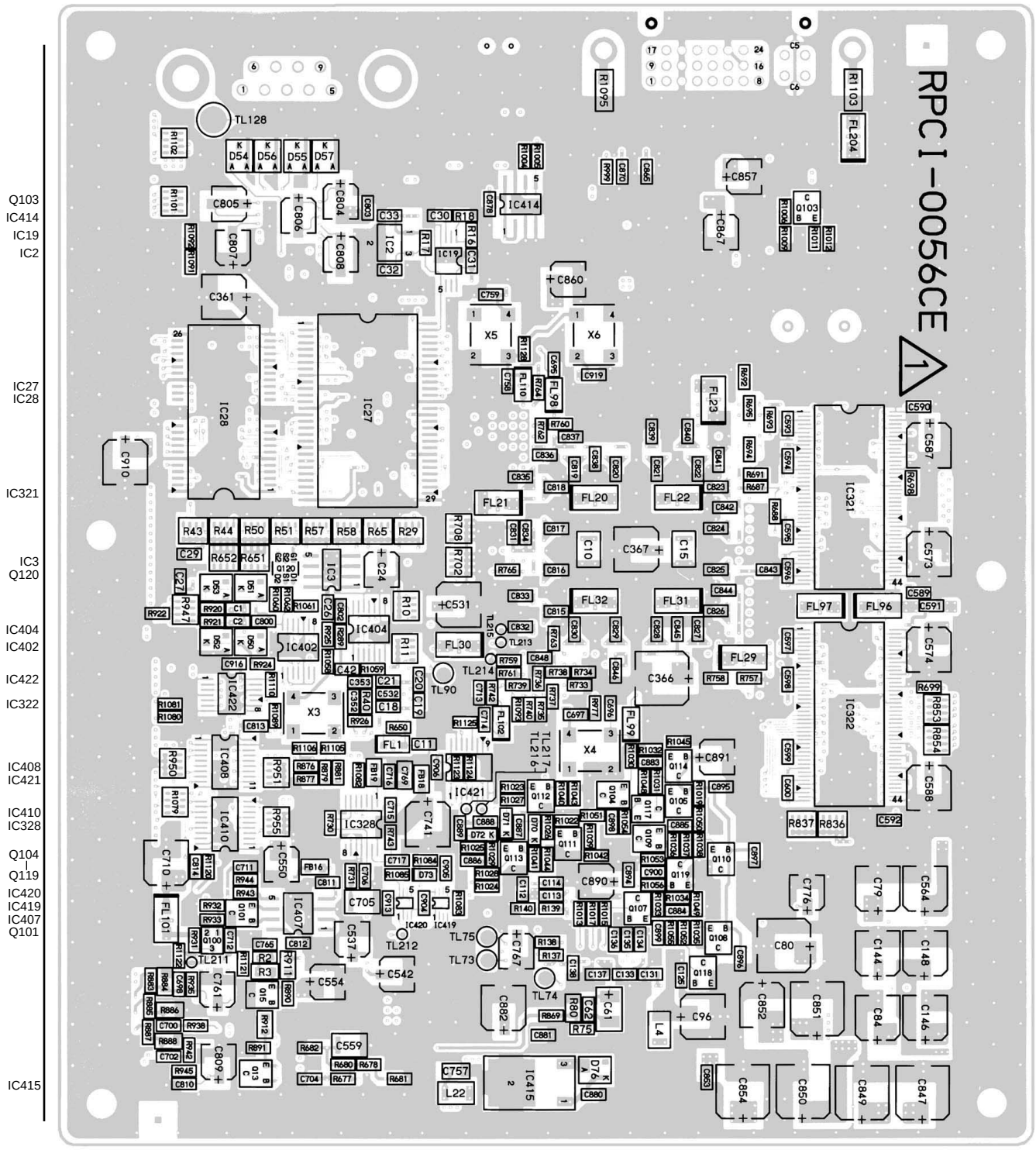
4.4 PC I/F UNIT

F PC I/F UNIT



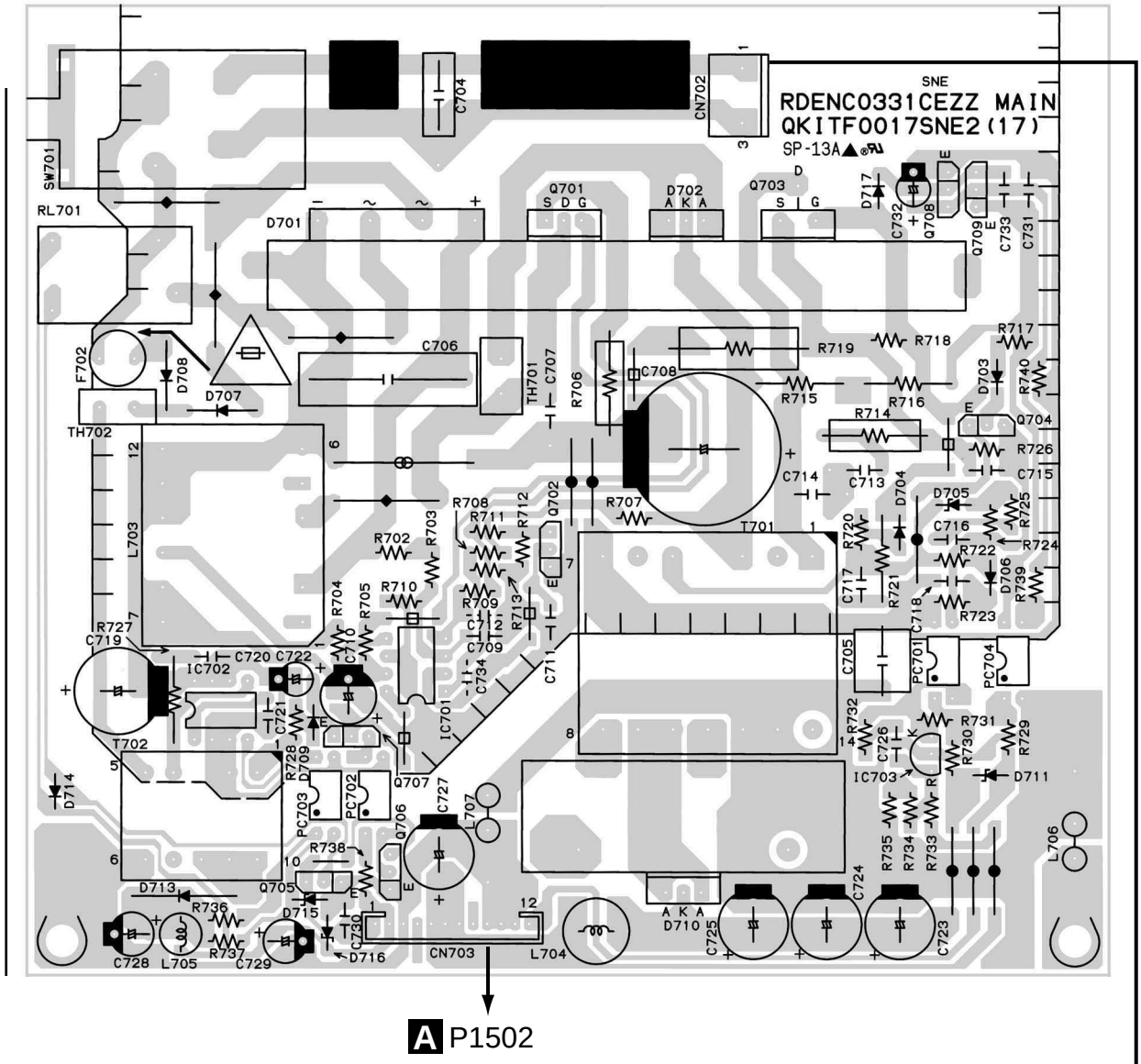
SIDE A

F PC I/F UNIT

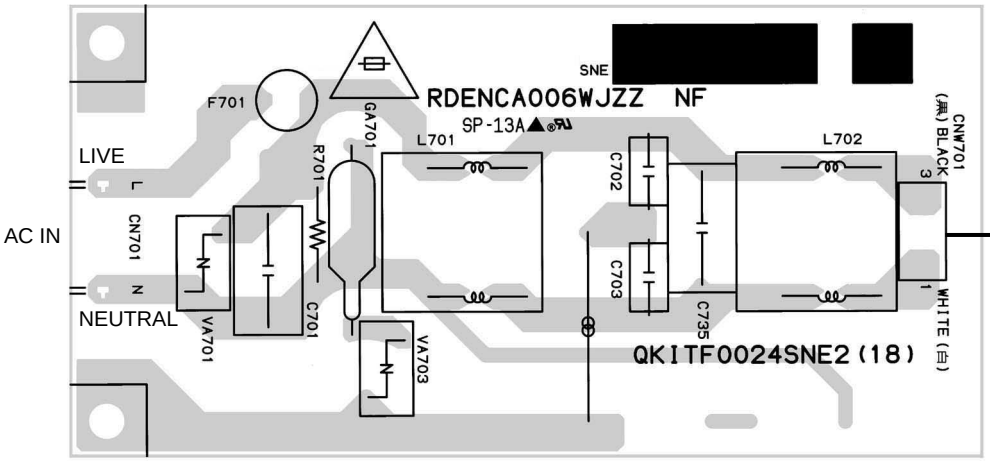

RPC I-0056CE
Q103
IC414
IC19
IC2
IC27
IC28
IC321
IC3
Q120
IC404
IC402
IC422
IC322
IC408
IC421
IC410
IC328
Q104
Q119
IC420
IC419
IC407
Q101
IC415
SIDE B

4.5 POWER and EMC UNITS

G POWER UNIT



H EMC UNIT



SIDE A

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

LIST OF ASSEMBLIES

MAIN UNIT	DUNTKA535FE01
FRONT UNIT	DUNTKA536DE01
AV UNIT	DUNTKA537DE01
SR CONNECT UNIT	DUNTKA594DE01
LED UNIT	DUNTKA649DE01
PC I/F UNIT	CPCI-0056CE11
EMC UNIT	RDENCA006WJZZ
POWER UNIT	RDENC0331CEZZ

A MAIN UNIT

INTEGRATED CIRCUITS

Mark	No.	Description	Part No.
	IC402	CXD2064Q	VHiCXD2064Q-1
	IC403	M62320FP	VHiM62320FP-1
	IC404	I.C.	VHiML6428C1-1
	IC405	CXD2064Q	VHiCXD2064Q-1
	IC406	M62320FP	VHiM62320FP-1
	IC407	I.C.	VHiML6428C1-1
	IC601	NJM2233V	VHiNJM2233V-1
	IC602	NJM2234M	VHiNJM2234M-1
	IC603	NJM2233V	VHiNJM2233V-1
	IC604	TA1318AF	VHiTA1318AF-1
	IC605	TC4052BF	VHiTC4052BF1E
	IC606	74HCT74F	VHi74HCT74F-1
	IC801	TB1274AF	VHiTB1274AF-1
	IC802	TB1274AF	VHiTB1274AF-1
	IC803	CXA2101AQ-Tl	VHiCXA2101Q-1
	IC804	Ml6426CS-1	RH-iX3473CEZZ
	IC807	TC7W34FU	VHiTC7W34U/-1
	IC808	TC7W34FU	VHiTC7W34U/-1
	IC810	Ml6426CS-1	RH-iX3473CEZZ
	IC811	Ml6426CS-4	RH-iX3474CEZZ
	IC812	NJM353M	VHiNJM353M/-1
	IC814	BA7655AF	VHiBA7655AF-1
	IC1502	M62393FP	VHiM62393FP-1
	IC1503	M62320FP	VHiM62320FP-1
	IC1504	TC7W53FU	VHiTC7W53U/-1
	IC1701	FA3675F	VHiFA3675F/-1
	IC1704	BA09FP-E2	VHiBA09T/FP-1
	IC1706	BA08FP	VHiBA08FP++-1
	IC1708	BA05FP	VHiBA05FP++-1
	IC1709	BA05FP	VHiBA05FP++-1
	IC1710	BA05FP	VHiBA05FP++-1
	IC1711	BA05FP	VHiBA05FP++-1
	IC1712	BA05FP	VHiBA05FP++-1
	IC1713	I.C.	VHiBA12FP++-1
	IC1901	I.C.	RH-iX3566CEZZ
	IC1902	M62320FP	VHiM62320FP-1
	IC1903	TC7W34FU	VHiTC7W34U/-1
	IC7200	IX3289CE	RH-iX3289CEZZ

TRANSISTORS

Mark	No.	Description	Part No.
	Q403	2SA1530AR	VS2SA1530AR-1
	Q405	2SA1530AR	VS2SA1530AR-1
	Q406	2SC3928AR	VS2SC3928AR-1
	Q407	2SC3928AR	VS2SC3928AR-1
	Q408	2SC3928AR	VS2SC3928AR-1
	Q409	2SC3928AR	VS2SC3928AR-1
	Q414	2SA1530AR	VS2SA1530AR-1
	Q415	2SC3928AR	VS2SC3928AR-1
	Q416	2SC3928AR	VS2SC3928AR-1
	Q424	2SA1530AR	VS2SA1530AR-1
	Q425	2SA1530AR	VS2SA1530AR-1
	Q426	2SA1530AR	VS2SA1530AR-1
	Q427	2SA1530AR	VS2SA1530AR-1
	Q601	2SC3928AR	VS2SC3928AR-1
	Q602	2SC3928AR	VS2SC3928AR-1
	Q603	2SC3928AR	VS2SC3928AR-1
	Q604	2SC3928AR	VS2SC3928AR-1
	Q605	2SC3928AR	VS2SC3928AR-1
	Q606	2SC3928AR	VS2SC3928AR-1
	Q607	2SC3928AR	VS2SC3928AR-1
	Q608	2SC3928AR	VS2SC3928AR-1
	Q609	2SC3928AR	VS2SC3928AR-1
	Q610	2SK1467	VS2SK1467//-1
	Q611	2SC3928AR	VS2SC3928AR-1
	Q612	2SC3928AR	VS2SC3928AR-1
	Q613	2SC3928AR	VS2SC3928AR-1
	Q614	2SC3928AR	VS2SC3928AR-1
	Q615	2SC3928AR	VS2SC3928AR-1
	Q616	2SC3928AR	VS2SC3928AR-1
	Q617	2SA1530AR	VS2SA1530AR-1
	Q618	2SC3928AR	VS2SC3928AR-1
	Q619	2SA1530AR	VS2SA1530AR-1
	Q622	DTC144TE	VSDTC144TE/-1
	Q623	DTC144TE	VSDTC144TE/-1
	Q624	DTC144EE	VSDTC144EE/-1
	Q925	DTC144EE	VSDTC144EE/-1
	Q801	2SA1530AR	VS2SA1530AR-1
	Q802	2SA1530AR	VS2SA1530AR-1
	Q803	2SA1530AR	VS2SA1530AR-1
	Q804	2SA1530AR	VS2SA1530AR-1

Mark	No.	Description	Part No.
	Q805	DTC144EE	VSDTC144EE/-1
	Q807	2SC3928AR	VS2SC3928AR-1
	Q808	2SA1530AR	VS2SA1530AR-1
	Q809	2SC3928AR	VS2SC3928AR-1
	Q810	2SA1530AR	VS2SA1530AR-1
	Q811	2SA1530AR	VS2SA1530AR-1
	Q812	2SA1530AR	VS2SA1530AR-1
	Q813	DTC124EK	VSDTC124EK/-1
	Q814	2SA1530AR	VS2SA1530AR-1
	Q815	2SA1530AR	VS2SA1530AR-1
	Q818	2SA1530AR	VS2SA1530AR-1
	Q819	2SA1530AR	VS2SA1530AR-1
	Q820	2SA1530AR	VS2SA1530AR-1
	Q821	2SC2735	VS2SC2735//1E
	Q822	2SC2735	VS2SC2735//1E
	Q823	2SC2735	VS2SC2735//1E
	Q824	2SA1530AR	VS2SA1530AR-1
	Q825	2SA1530AR	VS2SA1530AR-1
	Q826	2SA1530AR	VS2SA1530AR-1
	Q827	2SA1530AR	VS2SA1530AR-1
	Q828	2SA1530AR	VS2SA1530AR-1
	Q829	2SC3928AR	VS2SC3928AR-1
	Q830	2SC3928AR	VS2SC3928AR-1
	Q837	2SC3928AR	VS2SC3928AR-1
	Q838	2SA1530AR	VS2SA1530AR-1
	Q839	2SC2735	VS2SC2735//1E
	Q840	2SC2735	VS2SC2735//1E
	Q841	2SC2735	VS2SC2735//1E
	Q842	2SC3928AR	VS2SC3928AR-1
	Q843	2SC3928AR	VS2SC3928AR-1
	Q844	2SC3928AR	VS2SC3928AR-1
	Q1502	DTC144EE	VSDTC144EE/-1
	Q1503	2SB1132Q	VS2SB1132Q/-1
	Q1504	2SC3928AR	VS2SC3928AR-1
	Q1507	DTC144EE	VSDTC144EE/-1
	Q1508	DTA124EKA	VSDTA124EKA-1
	Q1509	DTA124EKA	VSDTC124EKA-1
	Q1510	DTA124EKA	VSDTA124EKA-1
	Q1511	DTA124EKA	VSDTC124EKA-1
	Q1701	DTC114EE	VSDTC114EE/-1
	Q1708	DTC114EE	VSDTC114EE/-1
	Q1710	FMMT718	VSFMMT718//-1
	Q1712	GF4435+++	VSGF4435+++-1
	Q1716	GF4435+++	VSGF4435+++-1
	Q1718	2SK2503	VS2SK2503//-1
	Q1719	2SC3928AR	VS2SC3928AR-1
	Q1726	GF4435+++	VSGF4435+++-1
	Q7201	2SC3928AR	VS2SC3928AR-1
	Q7206	2SC3928AR	VS2SC3928AR-1

DIODES

	D601	Diode	VHD1SS355//-1
	D801	Diode	VHD1SS355//-1
	D802	Diode	VHD1SS355//-1
	D1502	Diode	VHDDAN222//-1
	D1503	Diode	VHDDAN222//-1
	D1504	Diode	VHDDAN222//-1
	D1505	Diode	VHD1SS355//-1
	D1506	Diode	VHD1SS355//-1
	D1701	Diode	VHDHSU119//-1
	D1702	Diode	VHDHSU119//-1
	D1706	Diode	VHDSFPB74//2E
	D1708	Zener Diode	RH-EX0501CEZZ
	D1709	Zener Diode	RH-EX0501CEZZ
	D1710	Zener Diode	RH-EX0523CEZZ
	D1711	Diode	VHDSFPB74//2E
	D1712	Diode	VHDHSU119//-1
	D1713	Diode	VHDHSU119//-1
	D1715	Diode	VHDSFPB56//2E
	D1716	Diode	VHD1SS250//1E
	D1717	Diode	VHDSFPB76//2E
	D1719	Diode	VHDSFPB76//2E
	D1720	Diode	VHDSFPB76//2E
	D1723	Diode	VHDSFPB74//2E
	D1724	Diode	VHDHSU119//-1
	D1727	Diode	VHDHSU119//-1
	D7201	Diode	VHDDAN222//-1
	D7202	Diode	VHDDAN222//-1

PACKAGED CIRCUITS

	X601	Crystal	RFiLA0034CEZZ
	X801	Crystal	RCRSB0244CEZZ
	X802	Crystal	RCRSB0244CEZZ
	X1901	Crystal	RCRSZ0093CEZZ

FILTER AND COILS

	CF7201	Filter	RFiLA0098CEZZ
	L401	Peaking 4.7µH	VP-1M4R7J1R2N
	L404	Peaking 27µH	VP-1M270J3R8N
	L407	Peaking 22µH	VP-1M220J2R9N
	L408	Peaking 22µH	VP-1M220J2R9N
	L409	Peaking 4.7µH	VP-1M4R7J1R2N
	L601	Peaking 12µH	VP-1M120J1R9N
	L602	Peaking 6.8µH	VP-1M6R8J1R4N
	L603	Peaking 47µH	VP-1M470J5R4N
	L604	Peaking 6.8µH	VP-1M6R8J1R4N
	L605	Peaking 5.6µH	VP-1M5R6J1R2N
	L606	Peaking 8.2µH	VP-1M8R2J1R5N
	L607	Peaking 47µH	VP-1M470J5R4N
	L608	Peaking 3.9µH	VP-1M3R9J1R0N
	L609	Peaking 1.8µH	VP-1M1R8JR70N
	L610	Peaking 3.9µH	VP-1M3R9J1R0N
	L801	Peaking 4.7µH	VP-1M4R7J1R2N
	L802	Peaking 4.7µH	VP-1M4R7J1R2N
	L803	Peaking 4.7µH	VP-1M4R7J1R2N
	L804	Peaking 4.7µH	VP-1M4R7J1R2N
	L805	Peaking 4.7µH	VP-1M4R7J1R2N
	L806	Peaking 4.7µH	VP-1M4R7J1R2N
	L807	Peaking 4.7µH	VP-1M4R7J1R2N
	L1708	Coil	RCiLC0175CEZZ
	L1710	Coil	RCiLC0175CEZZ
	L1711	Coil	RCiLC0130CEZZ
	L1712	Coil	RCiLP0159GEZZ
	L1718	Coil	RCiLC0170CEZZ
	L1719	Coil	RCiLP0159GEZZ
	L1720	Coil	RCiLP0159GEZZ
	L1721	Coil	RCiLP0160GEZZ
	L1722	Coil	RCiLP0166GEZZ

TRANSFORMER

	T1701	Transformer	RTRNZ0802CEZZ

CAPACITORS

Mark	No.	Description	Part No.
	C403	22 6.3V Electrolytic	VCEAPF0JW226M
	C404	0.1 25V Ceramic	VCKYCY1EF104Z
	C405	0.1 25V Ceramic	VCKYCY1EF104Z
	C406	0.1 25V Ceramic	VCKYCY1EF104Z
	C407	0.1 25V Ceramic	VCKYCY1EF104Z
	C408	0.1 25V Ceramic	VCKYCY1EF104Z
	C409	0.1 25V Ceramic	VCKYCY1EF104Z
	C410	1.0 16V Ceramic	VCKYTV1CB105K
	C411	0.1 25V Ceramic	VCKYTV1EB104K
	C412	0.1 25V Ceramic	VCKYCY1EF104Z
	C413	0.1 25V Ceramic	VCKYCY1EF104Z
	C414	0.1 25V Ceramic	VCKYCY1EF104Z
	C415	0.1 25V Ceramic	VCKYCY1EF104Z
	C416	100 6.3V Electrolytic	VCEAPF0JN107M
	C417	1000p 50V Ceramic	VCKYCY1HB102K
	C418	0.022 50V Ceramic	VCKYCY1HF223Z
	C419	0.1 25V Ceramic	VCKYCY1EF104Z
	C420	0.1 25V Ceramic	VCKYCY1EF104Z
	C421	0.1 25V Ceramic	VCKYCY1EF104Z
	C422	100 16V Electrolytic	VCEAPW1CN107M
	C423	0.1 25V Ceramic	VCKYCY1EF104Z
	C427	27p 50V Ceramic	VCCCCY1HH270J
	C428	56p 50V Ceramic	VCCCCY1HH560J
	C429	0.1 25V Ceramic	VCKYCY1EF104Z
	C430	22 6.3V Electrolytic	VCEAPF0JW226M
	C431	0.1 25V Ceramic	VCKYCY1EF104Z
	C432	0.1 25V Ceramic	VCKYCY1EF104Z
	C433	0.1 25V Ceramic	VCKYCY1EF104Z
	C434	0.1 25V Ceramic	VCKYCY1EF104Z
	C435	0.1 25V Ceramic	VCKYCY1EF104Z
	C436	0.1 25V Ceramic	VCKYCY1EF104Z
	C437	1.0 16V Ceramic	VCKYTV1CB105K
	C438	0.1 25V Ceramic	VCKYTV1EB104K
	C439	0.1 25V Ceramic	VCKYCY1EF104Z
	C440	0.1 25V Ceramic	VCKYCY1EF104Z
	C441	0.1 25V Ceramic	VCKYCY1EF104Z
	C442	0.1 25V Ceramic	VCKYCY1EF104Z
	C443	100 6.3V Electrolytic	VCEAPF0JN107M
	C444	1000p 50V Ceramic	VCKYCY1HB102K
	C445	0.022 50V Ceramic	VCKYCY1HF223Z
	C446	0.1 25V Ceramic	VCKYCY1EF104Z
	C447	0.1 25V Ceramic	VCKYCY1EF104Z
	C448	0.1 25V Ceramic	VCKYCY1EF104Z
	C449	100 16V Electrolytic	VCEAPW1CN107M
	C450	0.1 25V Ceramic	VCKYCY1EF104Z
	C451	100 6.3V Electrolytic	VCEAPF0JN107M
	C452	100 6.3V Electrolytic	VCEAPF0JN107M
	C460	27p 50V Ceramic	VCCCCY1HH270J
	C461	10p 50V Ceramic	VCCCCY1HH100D
	C462	10p 50V Ceramic	VCCCCY1HH100D
	C463	27p 50V Ceramic	VCCCCY1HH270J
	C464	10p 50V Ceramic	VCCCCY1HH100D
	C465	10p 50V Ceramic	VCCCCY1HH100D
	C466	100 16V Electrolytic	VCEAPW1CN107M
	C467	0.1 25V Ceramic	VCKYCY1EF104Z
	C468	0.1 25V Ceramic	VCKYCY1EF104Z
	C469	0.1 25V Ceramic	VCKYCY1EF104Z
	C470	0.1 25V Ceramic	VCKYCY1EF104Z
	C601	0.1 25V Ceramic	VCKYCY1EF104Z
	C603	0.01 50V Ceramic	VCKYCY1HB103K
	C606	0.01 50V Ceramic	VCKYCY1HB103K
	C609	33 10V Electrolytic	VCEAPF1AW336M
	C611	33 10V Electrolytic	VCEAPF1AW336M
	C612	33 10V Electrolytic	VCEAPF1AW336M
	C614	4.7 50V Electrolytic	VCEAPF1HW475M
	C615	0.01 50V Ceramic	VCKYCY1HB103K
	C616	1.0 50V Electrolytic	VCEAPF1HW105M
	C617	0.1 25V Ceramic	VCKYCY1EF104Z
	C618	330 16V Electrolytic	RC-EZ0538CEZZ
	C619	0.1 25V Ceramic	VCKYCY1EF104Z
	C620	220 6.3V Electrolytic	VCEASH0JN227M
	C621	0.1 25V Ceramic	VCKYCY1EF104Z
	C622	0.01 50V Ceramic	VCKYCY1HB103K
	C623	0.1 25V Ceramic	VCKYCY1EF104Z
	C624	47 16V Electrolytic	VCEAPF1CW476M
	C625	0.1 25V Ceramic	VCKYCY1EF104Z
	C626	47 16V Electrolytic	VCEAPF1CW476M
	C627	0.1 25V Ceramic	VCKYCY1EF104Z
	C628	220p 50V Ceramic	VCCCCY1HH221J
	C629	820p 50V Ceramic	VCCCCY1HH821J
	C630	3900p 50V Ceramic	VCKYCY1HB392K
	C631	1200p 50V Ceramic	VCKYCY1HB122K
	C632	120p 50V Ceramic	VCCCCY1HH121J
	C633	0.01 50V Ceramic	VCKYCY1HB103K
	C634	22 16V Electrolytic	VCEAPF1CW226M
	C635	10 16V Electrolytic	VCEAPF1CW106M
	C636	0.1 25V Ceramic	VCKYCY1EF104Z
	C637	0.1 25V Ceramic	VCKYCY1EF104Z
	C638	0.1 25V Ceramic	VCKYCY1EF104Z
	C639	10 16V Electrolytic	VCEAPF1CW106M
	C640	10 16V Electrolytic	VCEAPF1CW106M
	C641	22 16V Electrolytic	VCEAPF1CW226M
	C642	0.1 25V Ceramic	VCKYCY1EF104Z
	C643	0.1 25V Ceramic	VCKYCY1EF104Z
	C644	47 16V Electrolytic	VCEAPF1CW476M
	C645	0.1 25V Ceramic	VCKYCY1EF104Z
	C646	4.7 50V Electrolytic	VCEAPF1HW475M
	C647	33 10V Electrolytic	VCEAPF1AW336M
	C648	100 16V Electrolytic	VCEAPF1CW107M
	C649	0.1 25V Ceramic	VCKYCY1EF104Z
	C650	150p 50V Ceramic	VCCCCY1HH151J
	C651	120p 50V Ceramic	VCCCCY1HH121J
	C652	270p 50V Ceramic	VCCCCY1HH271J
	C653	0.01 50V Ceramic	VCKYCY1HB103K
	C654	0.1 25V Ceramic	VCKYCY1EF104Z
	C655	0.01 50V Ceramic	VCKYCY1HB103K
	C656	0.1 25V Ceramic	VCKYCY1EF104Z
	C657	180p 50V Ceramic	VCCCCY1HH181J
	C658	220p 50V Ceramic	VCCCCY1HH221J
	C659	220p 50V Ceramic	VCCCCY1HH221J
	C660	0.01 50V Ceramic	VCKYCY1HB103K
	C661	0.1 25V Ceramic	VCKYCY1EF104Z
	C662	0.01 50V Ceramic	VCKYCY1HB103K
	C663	0.1 25V Ceramic	VCKYCY1EF104Z
	C801	0.1 25V Ceramic	VCKYTV1EB104K
	C802	0.1 25V Ceramic	VCKYCY1EF104Z
	C803	0.01 50V Ceramic	VCKYCY1HB103K
	C804	100 6.3V Electrolytic	VCEAPF0JW107M
	C805	0.01 50V Ceramic	VCKYCY1HB103K
	C807	0.1 25V Ceramic	VCKYTV1EB104K

Mark	No.	Description	Part No.
	C808	0.1 25V Ceramic	VCKYTV1EB104K
	C809	0.1 25V Ceramic	VCKYTV1EB104K
	C810	4.7 25V Electrolytic	VCEAPF1EW475M
	C811	0.1 25V Ceramic	VCKYTV1EB104K
	C812	0.1 25V Ceramic	VCKYTV1EB104K
	C813	0.1 25V Ceramic	VCKYTV1EB104K
	C814	0.01 50V Ceramic	VCKYCY1HB103K
	C815	100 6.3V Electrolytic	VCEAPF0JW107M
	C816	7.0p 50V Ceramic	VCCCCY1HH7R0D
	C817	0.01 50V Ceramic	VCKYCY1HB103K
	C818	0.47 50V Electrolytic	VCEAPF1HW474M
	C819	2.2 50V Electrolytic	VCEAPF1HW225M
	C820	0.022 50V Ceramic	VCKYCY1HF223Z
	C821	0.01 50V Ceramic	VCKYCY1HB103K
	C822	0.1 25V Ceramic	VCKYTV1EB104K
	C823	0.1 25V Ceramic	VCKYCY1EF104Z
	C824	0.1 25V Ceramic	VCKYTV1EB104K
	C825	0.01 50V Ceramic	VCKYCY1HB103K
	C826	100 6.3V Electrolytic	VCEAPF0JW107M
	C827	0.01 50V Ceramic	VCKYCY1HB103K
	C828	0.01 50V Ceramic	VCKYCY1HB103K
	C829	10 16V Electrolytic	VCEAPF1CW106M
	C830	0.1 25V Ceramic	VCKYTV1EB104K
	C831	0.1 25V Ceramic	VCKYTV1EB104K
	C832	0.1 25V Ceramic	VCKYTV1EB104K
	C833	4.7 25V Electrolytic	VCEAPF1EW475M
	C834	0.1 25V Ceramic	VCKYTV1EB104K
	C835	0.1 25V Ceramic	VCKYTV1EB104K
	C836	0.1 25V Ceramic	VCKYTV1EB104K
	C837	100 6.3V Electrolytic	VCEAPF0JW107M
	C838	0.01 50V Ceramic	VCKYCY1HB103K
	C839	7.0p 50V Ceramic	VCCCCY1HH7R0D
	C840	0.01 50V Ceramic	VCKYCY1HB103K
	C841	0.47 50V Electrolytic	VCEAPF1HW474M
	C842	0.1 25V Ceramic	VCKYCY1EF104Z
	C843	0.01 50V Ceramic	VCKYCY1HB103K
	C844	0.1 25V Ceramic	VCKYTV1EB104K
	C845	2.2 50V Electrolytic	VCEAPF1HW225M
	C846	0.022 50V Ceramic	VCKYCY1HF223Z
	C847	0.01 50V Ceramic	VCKYCY1HB103K
	C848	1.0 50V Electrolytic	VCEAPF1HN105M
	C849	1.0 50V Electrolytic	VCEAPF1HN105M
	C850	1.0 50V Electrolytic	VCEAPF1HN105M
	C851	0.1 25V Ceramic	VCKYCY1EF104Z
	C852	470 16V Electrolytic	VCEASD1CN477M
	C853	0.01 50V Ceramic	VCKYCY1HB103K
	C854	220 6.3V Electrolytic	VCEAPF0JW227M
	C855	220 6.3V Electrolytic	VCEAPF0JW227M
	C856	220 6.3V Electrolytic	VCEAPF0JW227M
	C860	0.1 25V Ceramic	VCKYCY1EF104Z
	C861	0.1 25V Ceramic	VCKYCY1EF104Z
	C866	0.1 25V Ceramic	VCKYCY1EF104Z
	C868	0.01 50V Ceramic	VCKYCY1HB103K
	C869	0.1 25V Ceramic	VCKYCY1EF104Z
	C870	0.1 25V Ceramic	VCKYCY1EF104Z
	C871	0.1 25V Ceramic	VCKYCY1EF104Z
	C872	0.1 25V Ceramic	VCKYCY1EF104Z
	C873	1.0 16V Ceramic	VCKYTV1CB105K
	C874	1.0 16V Ceramic	VCKYTV1CB105K
	C875	1.0 16V Ceramic	VCKYTV1CB105K
	C876	2200p 50V Ceramic	VCKYCY1HB222K
	C877	0.47 16V Ceramic	VCKYTV1CB474K
	C878	0.47 16V Ceramic	VCKYTV1CB474K
	C879	22 16V Electrolytic	VCEAPF1CW226M
	C880	0.1 25V Ceramic	VCKYTV1EB104K
	C881	0.1 25V Ceramic	VCKYTV1EB104K
	C882	0.1 25V Ceramic	VCKYTV1EB104K
	C883	22 16V Electrolytic	VCEAPF1CW226M
	C884	22 16V Electrolytic	VCEAPF1CW226M
	C885	22 16V Electrolytic	VCEAPF1CW226M
	C886	39p 50V Ceramic	VCCCCY1HH390J
	C887	10 16V Electrolytic	VCEAPF1CN106M
	C888	0.47 16V Ceramic	VCKYTV1CB474K
	C890	1 10V Ceramic	RC-KZ1025CEZZ
	C891	47 6.3V Electrolytic	VCEAPF0JW476M
	C892	0.1 25V Ceramic	VCKYTV1EB104K
	C893	0.1 25V Ceramic	VCKYTV1EB104K
	C894	0.1 25V Ceramic	VCKYTV1EB104K
	C895	0.1 25V Ceramic	VCKYTV1EB104K
	C896	0.1 25V Ceramic	VCKYTV1EB104K
	C897	0.1 25V Ceramic	VCKYTV1EB104K
	C898	0.1 25V Ceramic	VCKYCY1EF104Z
	C899	47 6.3V Electrolytic	VCEAPF0JW476M
	C900	100 6.3V Electrolytic	VCEAPF0JN107M
	C901	0.1 25V Ceramic	VCKYCY1EF104Z
	C902	1.0 50V Electrolytic	VCEAPF1HN105M
	C903	0.1 25V Ceramic	VCKYCY1EF104Z
	C912	0.47 50V Electrolytic	VCEAPF1HN474M
	C913	0.47 50V Electrolytic	VCEAPF1HN474M
	C915	0.1 25V Ceramic	VCKYCY1EF104Z
	C916	0.1 25V Ceramic	VCKYCY1EF104Z
	C917	0.1 25V Ceramic	VCKYTV1EB104K
	C918	0.1 25V Ceramic	VCKYTV1EB104K
	C919	0.1 25V Ceramic	VCKYTV1EB104K
	C920	1.0 16V Ceramic	VCKYTV1CB105K
	C921	1.0 16V Ceramic	VCKYTV1CB105K
	C922	1.0 16V Ceramic	VCKYTV1CB105K
	C923	0.1 25V Ceramic	VCKYCY1EF104Z
	C924	0.1 25V Ceramic	VCKYCY1EF104Z
	C925	0.1 25V Ceramic	VCKYCY1EF104Z
	C926	0.1 25V Ceramic	VCKYCY1EF104Z
	C927	0.1 25V Ceramic	VCKYCY1EF104Z
	C928	47 16V Electrolytic	VCEAPF1CW476M
	C929	47 16V Electrolytic	VCEAPF1CW476M
	C930	0.1 25V Ceramic	VCKYCY1EF104Z
	C931	10 16V Electrolytic	VCEAPF1CW106M
	C932	10 16V Electrolytic	VCEAPF1CW106M
	C933	0.1 25V Ceramic	VCKYCY1EF104Z
	C934	22 16V Electrolytic	VCEAPF1CW226M
	C935	220 6.3V Electrolytic	VCEASH0JN227M
	C936	10 16V Electrolytic	VCEAPF1CW106M
	C937	10 16V Electrolytic	VCEAPF1CW106M
	C938	0.1 25V Ceramic	VCKYCY1EF104Z
	C942	0.01 50V Ceramic	VCKYCY1HB103K
	C943	0.1 25V Ceramic	VCKYTV1EB104K
	C944	1 10V Ceramic	RC-KZ1025CEZZ
	C950	0.1 25V Ceramic	VCKYCY1EF104Z
	C951	0.1 25V Ceramic	VCKYCY1EF104Z
	C952	0.1 25V Ceramic	VCKYCY1EF104Z
	C953	0.1 25V Ceramic	VCKYCY1EF104Z

Mark	No.	Description	Part No.
	C954	0.1 25V Ceramic	VCKYCY1EF104Z
	C1502	0.1 25V Ceramic	VCKYCY1EF104Z
	C1503	0.1 25V Ceramic	VCKYCY1EF104Z
	C1504	100 6.3V Electrolytic	VCEAPF0JN107M
	C1505	47 16V Electrolytic	VCEAPF1CW476M
	C1506	47 16V Electrolytic	VCEAPF1CW476M
	C1511	0.1 25V Ceramic	VCKYCY1EF104Z
	C1512	1.0 16V Ceramic	VCKYTV1CF105Z
	C1701	330 16V Electrolytic	VCEASH1CN337M
	C1702	22 16V Electrolytic	VCEAPF1CW226M
	C1703	0.1 25V Ceramic	VCKYCY1EF104Z
	C1704	100p 50V Ceramic	VCCCCY1HH101J
	C1705	0.47 16V Ceramic	VCKYCY1CF474Z
	C1706	1.0 16V Ceramic	VCKYTV1CF105Z
	C1707	0.22 16V Ceramic	VCKYTV1CF224Z
	C1709	0.1 25V Ceramic	VCKYCY1EF104Z
	C1711	0.1 16V Ceramic	VCKYTV1CF104Z
	C1712	0.1 25V Ceramic	VCKYCY1EF104Z
	C1713	0.1 25V Ceramic	VCKYCY1EF104Z
	C1714	2200p 50V Ceramic	VCKYCY1HB222K
	C1715	2200p 50V Ceramic	VCKYCY1HB222K
	C1717	0.33 16V Ceramic	VCKYCY1CF334Z
	C1718	100 16V Electrolytic	VCEASM1CN107M
	C1719	2200p 50V Ceramic	VCKYCY1HB222K
	C1720	2200p 50V Ceramic	VCKYCY1HB222K
	C1721	0.33 16V Ceramic	VCKYCY1CF334Z
	C1722	100 16V Electrolytic	VCEASM1CN107M
	C1724	0.1 25V Ceramic	VCKYCY1EF104Z
	C1725	1.0 16V Ceramic	VCKYTV1CF105Z
	C1727	39 16V Electrolytic	VCAAPF1CJ396M
	C1728	82 16V Electrolytic	VCAAPF1CJ826M
	C1729	220 6.3V Electrolytic	VCAAPF0JJ227M
	C1731	0.1 25V Ceramic	VCKYCY1EF104Z
	C1732	470 16V Electrolytic	VCEASD1CN477M
	C1733	0.33 16V Ceramic	VCKYCY1CF334Z
	C1734	100 16V Electrolytic	VCEASM1CN107M
	C1735	470 16V Electrolytic	VCEASD1CN477M
	C1736	39 16V Electrolytic	VCAAPF1CJ396M
	C1737	82 16V Electrolytic	VCAAPF1CJ826M
	C1738	330 4.0V Electrolytic	VCAAPF0GJ337M
	C1740	1000p 50V Ceramic	VCKYCY1HB102K
	C1741	0.33 16V Ceramic	VCKYCY1CF334Z
	C1742	100 16V Electrolytic	VCEASM1CN107M
	C1743	1000p 50V Ceramic	VCKYCY1HB102K
	C1745	1.0 16V Ceramic	VCKYTV1CF105Z
	C1746	1000p 50V Ceramic	VCKYCY1HB102K
	C1748	0.33 16V Ceramic	VCKYCY1CF334Z
	C1749	100 16V Electrolytic	VCEAPF1CN107M
	C1750	330 16V Electrolytic	VCEASH1CN337M
	C1751	5600p 50V Ceramic	VCKYCY1HB562K
	C1752	82 16V Electrolytic	VCAAPF1CJ826M
	C1753	5600p 50V Ceramic	VCKYCY1HB562K
	C1754	100 50V Electrolytic	VCEASH1HN107M
	C1755	0.1 50V Ceramic	VCKYTV1HF104Z
	C1756	1.0 16V Ceramic	VCKYTV1CF105Z
	C1757	330 16V Electrolytic	VCEASH1CN337M
	C1758	1.0 16V Ceramic	VCKYTV1CF105Z
	C1759	220 16V Electrolytic	RC-EZ1339CEZZ
	C1764	330 16V Electrolytic	VCEASH1CN337M
	C1765	1.0 16V Ceramic	VCKYTV1CF105Z
	C1766	220 16V Electrolytic	RC-EZ1339CEZZ
	C1767	1.0 16V Ceramic	VCKYTV1CF105Z
	C1768	330 16V Electrolytic	VCEASH1CN337M
	C1769	220 16V Electrolytic	RC-EZ1339CEZZ
	C1770	1000p 50V Ceramic	VCKYCY1HB102K
	C1771	1000p 50V Ceramic	VCKYCY1HB102K
	C1772	1000p 50V Ceramic	VCKYCY1HB102K
	C1773	1000p 50V Ceramic	VCKYCY1HB102K
	C1774	470 16V Electrolytic	VCEASD1CN477M
	C1775	330 16V Electrolytic	VCEASD1CN337M
	C1776	1000p 50V Ceramic	VCKYCY1HB102K
	C1777	1000p 50V Ceramic	VCKYCY1HB102K
	C1778	100 6.3V Electrolytic	VCEAPF0JW107M
	C1779	0.1 25V Ceramic	VCKYCY1EF104Z
	C1780	1000p 50V Ceramic	VCKYCY1HB102K
	C1781	1000p 50V Ceramic	VCKYCY1HB102K
	C1782	1000p 50V Ceramic	VCKYCY1HB102K
	C1783	39 16V Electrolytic	VCAAPF1CJ396M
	C1784	82 16V Electrolytic	VCAAPF1CJ826M
	C1785	150 10V Electrolytic	VCAAPF1AJ157M
	C1787	1000p 50V Ceramic	VCKYCY1HB102K
	C1788	1000p 50V Ceramic	VCKYCY1HB102K
	C1789	1000p 50V Ceramic	VCKYCY1HB102K
	C1790	1000p 50V Ceramic	VCKYCY1HB102K
	C1791	1000p 50V Ceramic	VCKYCY1HB102K
	C1792	0.33 16V Ceramic	VCKYCY1CF334Z
	C1793	100 16V Electrolytic	VCEASM1CN107M
	C1794	0.33 16V Ceramic	VCKYCY1CF334Z
	C1795	100 16V Electrolytic	VCEASM1CN107M
	C1796	0.33 16V Ceramic	VCKYCY1CF334Z
	C1797	100 16V Electrolytic	VCEASM1CN107M
	C1798	1000p 50V Ceramic	VCKYCY1HB102K
	C1901	100 6.3V Electrolytic	VCEAPF0JW107M
	C1902	0.1 25V Ceramic	VCKYCY1EF104Z
	C1903	0.1 25V Ceramic	VCKYCY1EF104Z
	C1904	0.1 25V Ceramic	VCKYCY1EF104Z
	C1905	0.1 25V Ceramic	VCKYCY1EF104Z
	C1906	0.1 25V Ceramic	VCKYCY1EF104Z
	C1907	0.1 25V Ceramic	VCKYCY1EF104Z
	C1908	100 6.3V Electrolytic	VCEAPF0JW107M
	C1909	0.1 25V Ceramic	VCKYCY1EF104Z
	C1910	0.1 25V Ceramic	VCKYCY1EF104Z
	C1911	0.1 25V Ceramic	VCKYCY1EF104Z
	C7201	0.1 25V Ceramic	VCKYCY1EF104Z
	C7203	33p 50V Ceramic	VCCCCY1HH330J
	C7204	33p 50V Ceramic	VCCCCY1HH330J
	C7205	33p 50V Ceramic	VCCCCY1HH330J
	C7206	33p 50V Ceramic	VCCCCY1HH330J
	C7207	0.1 25V Ceramic	VCKYCY1EF104Z
	C7208	0.1 25V Ceramic	VCKYCY1EF104Z
	C7209	0.1 25V Ceramic	VCKYCY1EF104Z
	C7210	0.1 25V Ceramic	VCKYCY1EF104Z
	C7221	100 6.3V Electrolytic	VCEAPF0JW107M

RESISTORS

	R403	470 1/16W Metal Oxide	VRS-CY1JF471F
	R404	470 1/16W Metal Oxide	VRS-CY1JF471F
	R405	220 1/16W Metal Oxide	VRS-CY1JF221F
	R406	390 1/16W Metal Oxide	VRS-CY1JF391F
	R409	1.0k 1/16W Metal Oxide	VRS-CY1JF102F

Mark	No.	Description	Part No.
	R410	2.7k 1/16W Metal Oxide	VRS-CY1JF272F
	R411	3.3k 1/16W Metal Oxide	VRS-CY1JF332F
	R412	560 1/16W Metal Oxide	VRS-CY1JF561J
	R413	56k 1/16W Metal Oxide	VRS-CY1JF563J
	R414	390 1/16W Metal Oxide	VRS-CY1JF391J
	R415	390 1/16W Metal Oxide	VRS-CY1JF391J
	R416	390 1/16W Metal Oxide	VRS-CY1JF391J
	R417	390 1/16W Metal Oxide	VRS-CY1JF391J
	R418	390 1/16W Metal Oxide	VRS-CY1JF391J
	R420	390 1/16W Metal Oxide	VRS-CY1JF391J
	R421	390 1/16W Metal Oxide	VRS-CY1JF391J
	R422	100 1/16W Metal Oxide	VRS-CY1JF101J
	R423	100 1/16W Metal Oxide	VRS-CY1JF101J
	R424	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R425	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R435	100 1/16W Metal Oxide	VRS-CY1JF101J
	R436	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R437	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R439	27k 1/16W Metal Oxide	VRS-CY1JF273J
	R440	27k 1/16W Metal Oxide	VRS-CY1JF273J
	R441	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R442	0 1/16W Metal Oxide	VRS-CY1JF000J
	R444	100 1/16W Metal Oxide	VRS-CY1JF101J
	R445	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R446	330 1/16W Metal Oxide	VRS-CY1JF331J
	R447	360 1/16W Metal Oxide	VRS-CY1JF361J
	R448	100 1/16W Metal Oxide	VRS-CY1JF101J
	R449	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R450	330 1/16W Metal Oxide	VRS-CY1JF331J
	R451	330 1/16W Metal Oxide	VRS-CY1JF331J
	R452	100 1/16W Metal Oxide	VRS-CY1JF101J
	R453	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R454	330 1/16W Metal Oxide	VRS-CY1JF331J
	R455	390 1/16W Metal Oxide	VRS-CY1JF391J
	R456	100 1/16W Metal Oxide	VRS-CY1JF101J
	R457	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R458	330 1/16W Metal Oxide	VRS-CY1JF331J
	R459	560 1/16W Metal Oxide	VRS-CY1JF561J
	R460	240 1/16W Metal Oxide	VRS-CY1JF241F
	R461	390 1/16W Metal Oxide	VRS-CY1JF391F
	R464	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
	R465	2.7k 1/16W Metal Oxide	VRS-CY1JF272F
	R466	3.3k 1/16W Metal Oxide	VRS-CY1JF332F
	R467	560 1/16W Metal Oxide	VRS-CY1JF561J
	R468	56k 1/16W Metal Oxide	VRS-CY1JF563J
	R469	390 1/16W Metal Oxide	VRS-CY1JF391J
	R470	390 1/16W Metal Oxide	VRS-CY1JF391J
	R471	390 1/16W Metal Oxide	VRS-CY1JF391J
	R472	390 1/16W Metal Oxide	VRS-CY1JF391J
	R474	390 1/16W Metal Oxide	VRS-CY1JF391J
	R475	390 1/16W Metal Oxide	VRS-CY1JF391J
	R476	390 1/16W Metal Oxide	VRS-CY1JF391J
	R477	100 1/16W Metal Oxide	VRS-CY1JF101J
	R478	100 1/16W Metal Oxide	VRS-CY1JF101J
	R479	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R480	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R481	390 1/16W Metal Oxide	VRS-CY1JF391J
	R482	390 1/16W Metal Oxide	VRS-CY1JF391J
	R483	0 1/16W Metal Oxide	VRS-CY1JF000J
	R484	0 1/16W Metal Oxide	VRS-CY1JF000J
	R485	0 1/16W Metal Oxide	VRS-CY1JF000J
	R499	330 1/16W Metal Oxide	VRS-CY1JF331J
	R500	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R501	0 1/16W Metal Oxide	VRS-CY1JF000J
	R504	100 1/16W Metal Oxide	VRS-CY1JF101J
	R505	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R506	330 1/16W Metal Oxide	VRS-CY1JF331J
	R507	360 1/16W Metal Oxide	VRS-CY1JF361J
	R508	100 1/16W Metal Oxide	VRS-CY1JF101J
	R509	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R528	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R529	910 1/16W Metal Oxide	VRS-CY1JF911J
	R530	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R531	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R532	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R533	910 1/16W Metal Oxide	VRS-CY1JF911J
	R534	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R535	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R536	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R537	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R564	360 1/16W Metal Oxide	VRS-CY1JF361J
	R601	0 1/16W Metal Oxide	VRS-CY1JF000J
	R602	100 1/16W Metal Oxide	VRS-CY1JF101J
	R603	100 1/16W Metal Oxide	VRS-CY1JF101J
	R604	100 1/16W Metal Oxide	VRS-CY1JF101J
	R605	100 1/16W Metal Oxide	VRS-CY1JF101J
	R606	100 1/16W Metal Oxide	VRS-CY1JF101J
	R607	12k 1/16W Metal Oxide	VRS-CY1JF123J
	R608	12k 1/16W Metal Oxide	VRS-CY1JF123J
	R609	100 1/16W Metal Oxide	VRS-CY1JF101J
	R610	100 1/16W Metal Oxide	VRS-CY1JF101J
	R611	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R612	390 1/16W Metal Oxide	VRS-CY1JF391J
	R613	100 1/16W Metal Oxide	VRS-CY1JF101J
	R614	100 1/16W Metal Oxide	VRS-CY1JF101J
	R615	100 1/16W Metal Oxide	VRS-CY1JF101J
	R616	100 1/16W Metal Oxide	VRS-CY1JF101J
	R618	100 1/16W Metal Oxide	VRS-CY1JF101J
	R619	100 1/16W Metal Oxide	VRS-CY1JF101J
	R620	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R621	47 1/16W Metal Oxide	VRS-CY1JF470J
	R622	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R623	330 1/16W Metal Oxide	VRS-CY1JF331J
	R624	470 1/16W Metal Oxide	VRS-CY1JF471F
	R625	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
	R626	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R627	680 1/16W Metal Oxide	VRS-CY1JF681J
	R628	47 1/16W Metal Oxide	VRS-CY1JF470J
	R629	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R630	470 1/16W Metal Oxide	VRS-CY1JF471J
	R631	100 1/16W Metal Oxide	VRS-CY1JF101J
	R632	330 1/16W Metal Oxide	VRS-CY1JF331J
	R633	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R634	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R635	100 1/16W Metal Oxide	VRS-CY1JF101J
	R636	820 1/16W Metal Oxide	VRS-CY1JF821J
	R637	15k 1/16W Metal Oxide	VRS-CY1JF153J
	R638	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R639	820 1/16W Metal Oxide	VRS-CY1JF821J
	R640	1.8k 1/16W Metal Oxide	VRS-CY1JF182J

Mark	No.	Description	Part No.
	R641	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R642	47 1/16W Metal Oxide	VRS-CY1JF470J
	R643	680 1/16W Metal Oxide	VRS-CY1JF681J
	R644	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R645	0 1/16W Metal Oxide	VRS-CY1JF000J
	R646	47 1/16W Metal Oxide	VRS-CY1JF470J
	R647	330 1/16W Metal Oxide	VRS-CY1JF331J
	R648	100 1/16W Metal Oxide	VRS-CY1JF101J
	R649	18k 1/16W Metal Oxide	VRS-CY1JF183J
	R650	47 1/16W Metal Oxide	VRS-CY1JF470J
	R651	5.1k 1/16W Metal Oxide	VRS-CY1JF512J
	R652	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R653	470 1/16W Metal Oxide	VRS-CY1JF471J
	R654	220 1/16W Metal Oxide	VRS-CY1JF221J
	R655	15k 1/16W Metal Oxide	VRS-CY1JF153J
	R656	5.1k 1/16W Metal Oxide	VRS-CY1JF512J
	R657	330 1/16W Metal Oxide	VRS-CY1JF331J
	R658	47 1/16W Metal Oxide	VRS-CY1JF470J
	R659	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
	R660	100 1/16W Metal Oxide	VRS-CY1JF101J
	R661	680 1/16W Metal Oxide	VRS-CY1JF681J
	R663	390 1/16W Metal Oxide	VRS-CY1JF391J
	R664	300 1/16W Metal Oxide	VRS-CY1JF301F
	R665	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
	R666	820 1/16W Metal Oxide	VRS-CY1JF821J
	R667	47 1/16W Metal Oxide	VRS-CY1JF470J
	R668	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R669	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R670	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R674	0 1/16W Metal Oxide	VRS-CY1JF000J
	R675	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R676	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R677	47 1/16W Metal Oxide	VRS-CY1JF470J
	R678	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R679	470 1/16W Metal Oxide	VRS-CY1JF471J
	R680	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R681	330 1/16W Metal Oxide	VRS-CY1JF331J
	R682	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R683	18k 1/16W Metal Oxide	VRS-CY1JF183J
	R684	47 1/16W Metal Oxide	VRS-CY1JF470J
	R685	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R686	47 1/16W Metal Oxide	VRS-CY1JF470J
	R687	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R688	820 1/16W Metal Oxide	VRS-CY1JF821J
	R689	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R690	470 1/16W Metal Oxide	VRS-CY1JF471J
	R691	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R692	18k 1/16W Metal Oxide	VRS-CY1JF183J
	R693	47 1/16W Metal Oxide	VRS-CY1JF470J
	R694	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R695	100 1/16W Metal Oxide	VRS-CY1JF101J
	R698	0 1/16W Metal Oxide	VRS-CY1JF000J
	R704	0 1/16W Metal Oxide	VRS-CY1JF000J
	R706	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R707	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R708	100 1/16W Metal Oxide	VRS-CY1JF101J
	R709	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R710	100 1/16W Metal Oxide	VRS-CY1JF101J
	R711	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R802	100 1/16W Metal Oxide	VRS-CY1JF101J
	R803	100 1/16W Metal Oxide	VRS-CY1JF101J
	R805	27k 1/16W Metal Oxide	VRS-CY1JF273J
	R806	100 1/16W Metal Oxide	VRS-CY1JF101J
	R807	3.9k 1/16W Metal Oxide	VRS-CY1JF392J
	R808	100 1/16W Metal Oxide	VRS-CY1JF101J
	R809	100 1/16W Metal Oxide	VRS-CY1JF101J
	R810	0 1/16W Metal Oxide	VRS-CY1JF000J
	R811	27k 1/16W Metal Oxide	VRS-CY1JF273J
	R812	100 1/16W Metal Oxide	VRS-CY1JF101J
	R813	3.9k 1/16W Metal Oxide	VRS-CY1JF392J
	R816	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R817	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R818	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R819	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R820	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R821	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R822	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R823	0 1/16W Metal Oxide	VRS-CY1JF000J
	R824	0 1/16W Metal Oxide	VRS-CY1JF000J
	R825	0 1/16W Metal Oxide	VRS-CY1JF000J
	R829	680 1/16W Metal Oxide	VRS-CY1JF681J
	R830	680 1/16W Metal Oxide	VRS-CY1JF681J
	R831	470 1/16W Metal Oxide	VRS-CY1JF471J
	R832	47k 1/16W Metal Oxide	VRS-CY1JF473F
	R833	100 1/16W Metal Oxide	VRS-CY1JF101J
	R834	100 1/16W Metal Oxide	VRS-CY1JF101J
	R835	47 1/16W Metal Oxide	VRS-CY1JF470J
	R836	47 1/16W Metal Oxide	VRS-CY1JF470J
	R837	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R841	47 1/16W Metal Oxide	VRS-CY1JF470J
	R842	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R844	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R846	47 1/16W Metal Oxide	VRS-CY1JF470J
	R847	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R850	47 1/16W Metal Oxide	VRS-CY1JF470J
	R851	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R853	00 1/16W Metal Oxide	VRS-CY1JF000J
	R854	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R855	3.3M 1/16W Metal Oxide	VRS-CY1JF335J
	R856	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R857	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R858	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R859	00 1/16W Metal Oxide	VRS-CY1JF000J
	R864	100 1/16W Metal Oxide	VRS-CY1JF101J
	R865	100 1/16W Metal Oxide	VRS-CY1JF101J
	R866	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R867	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R868	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R869	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R873	22k 1/16W Metal Oxide	VRS-CY1JF223F
	R874	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R875	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R876	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R877	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R886	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R888	0 1/16W Metal Oxide	VRS-CY1JF000J
	R889	0 1/16W Metal Oxide	VRS-CY1JF000J
	R891	100 1/16W Metal Oxide	VRS-CY1JF101J
	R892	100 1/16W Metal Oxide	VRS-CY1JF101J
	R894	100 1/16W Metal Oxide	VRS-CY1JF101J

Mark	No.	Description	Part No.
	R896	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R898	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R899	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R900	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R901	18k 1/16W Metal Oxide	VRS-CY1JF183J
	R902	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R903	18k 1/16W Metal Oxide	VRS-CY1JF183J
	R904	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R905	18k 1/16W Metal Oxide	VRS-CY1JF183J
	R906	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R907	56 1/16W Metal Oxide	VRS-CY1JF560J
	R908	150 1/8W Metal Oxide	VRS-TQ2BD151J
	R909	470 1/16W Metal Oxide	VRS-CY1JF471J
	R910	180 1/16W Metal Oxide	VRS-CY1JF181J
	R911	470 1/16W Metal Oxide	VRS-CY1JF471J
	R912	4.3k 1/16W Metal Oxide	VRS-CY1JF432J
	R913	150 1/8W Metal Oxide	VRS-TQ2BD151J
	R914	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
	R915	56 1/16W Metal Oxide	VRS-CY1JF560J
	R921	0 1/16W Metal Oxide	VRS-CY1JF000J
	R922	0 1/16W Metal Oxide	VRS-CY1JF000J
	R923	56 1/16W Metal Oxide	VRS-CY1JF560J
	R924	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R925	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R926	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R927	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R928	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R929	56 1/16W Metal Oxide	VRS-CY1JF560J
	R930	56 1/16W Metal Oxide	VRS-CY1JF560J
	R931	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R932	100 1/16W Metal Oxide	VRS-CY1JF101J
	R933	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R934	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R935	820 1/16W Metal Oxide	VRS-CY1JF821J
	R936	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R937	100 1/16W Metal Oxide	VRS-CY1JF101J
	R938	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R939	820 1/16W Metal Oxide	VRS-CY1JF821J
	R940	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R941	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R942	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R943	820 1/16W Metal Oxide	VRS-CY1JF821J
	R944	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R945	820 1/16W Metal Oxide	VRS-CY1JF821J
	R946	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R947	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R948	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R949	820 1/16W Metal Oxide	VRS-CY1JF821J
	R950	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R951	820 1/16W Metal Oxide	VRS-CY1JF821J
	R952	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R953	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R954	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R955	820 1/16W Metal Oxide	VRS-CY1JF821J
	R956	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R957	820 1/16W Metal Oxide	VRS-CY1JF821J
	R958	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R959	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R960	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R961	820 1/16W Metal Oxide	VRS-CY1JF821J
	R962	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R963	47 1/16W Metal Oxide	VRS-CY1JF470J
	R964	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R965	47 1/16W Metal Oxide	VRS-CY1JF470J
	R966	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R967	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R968	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R969	47 1/16W Metal Oxide	VRS-CY1JF470J
	R970	11k 1/16W Metal Oxide	VRS-CY1JF113F
	R971	6.8k 1/16W Metal Oxide	VRS-CY1JF682F
	R972	1.5k 1/16W Metal Oxide	VRS-CY1JF152F
	R973	47 1/16W Metal Oxide	VRS-CY1JF470J
	R974	1.0M 1/16W Metal Oxide	VRS-CY1JF105J
	R975	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R976	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R977	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R978	8.2k 1/16W Metal Oxide	VRS-CY1JF822J
	R979	33k 1/16W Metal Oxide	VRS-CY1JF333F
	R980	56 1/16W Metal Oxide	VRS-CY1JF560J
	R981	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R982	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R983	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R984	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R985	100 1/16W Metal Oxide	VRS-CY1JF101J
	R986	0 1/16W Metal Oxide	VRS-CY1JF000J
	R987	330 1/16W Metal Oxide	VRS-CY1JF331F
	R988	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
	R989	120 1/16W Metal Oxide	VRS-CY1JF121F
	R990	39k 1/16W Metal Oxide	VRS-CY1JF393F
	R991	47 1/16W Metal Oxide	VRS-CY1JF470J
	R992	100 1/16W Metal Oxide	VRS-CY1JF101J
	R993	100 1/16W Metal Oxide	VRS-CY1JF101J
	R994	100 1/16W Metal Oxide	VRS-CY1JF101J
	R995	100 1/16W Metal Oxide	VRS-CY1JF101J
	R996	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R997	56 1/16W Metal Oxide	VRS-CY1JF560J
	R998	56 1/16W Metal Oxide	VRS-CY1JF560J
	R999	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1501	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1502	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1503	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1504	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1505	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1506	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1507	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1515	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1516	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1517	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1518	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1519	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1521	390 1/16W Metal Oxide	VRS-CY1JF391J
	R1522	390 1/16W Metal Oxide	VRS-CY1JF391J
	R1524	390 1/16W Metal Oxide	VRS-CY1JF391J
	R1525	390 1/16W Metal Oxide	VRS-CY1JF391J
	R1526	390 1/16W Metal Oxide	VRS-CY1JF391J
	R1528	390 1/16W Metal Oxide	VRS-CY1JF391J
	R1529	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1530	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R1531	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1533	100 1/16W Metal Oxide	VRS-CY1JF101J

Mark	No.	Description	Part No.
	R1534	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1535	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R1538	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1539	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1544	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1545	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1550	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1551	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1564	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1565	390 1/16W Metal Oxide	VRS-CY1JF391J
	R1566	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1568	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R1569	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R1570	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R1571	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R1572	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R1573	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R1594	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1596	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1701	68k 1/16W Metal Oxide	VRS-CY1JF683J
	R1702	2.7k 1/16W Metal Oxide	VRS-CY1JF272J
	R1706	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1707	27k 1/16W Metal Oxide	VRS-CY1JF273J
	R1708	39k 1/16W Metal Oxide	VRS-CY1JF393J
	R1709	10 1/4W Metal Oxide	VRS-TW2ED100J
	R1711	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1712	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1713	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1714	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1718	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1719	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1721	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1722	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1724	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1726	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1727	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1728	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1736	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R1743	12 1/4W Metal Oxide	VRS-TW2ED120J
	R1744	3.3k 1/16W Metal Oxide	VRS-CY1JF332F
	R1745	330 1/16W Metal Oxide	VRS-CY1JF331F
	R1746	1.5k 1/16W Metal Oxide	VRS-CY1JF152F
	R1747	47k 1/16W Metal Oxide	VRS-CY1JF473F
	R1751	470 1/4W Metal Oxide	VRS-TW2ED471J
	R1753	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1756	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R1763	12 1/4W Metal Oxide	VRS-TW2ED120J
	R1764	2.7k 1/16W Metal Oxide	VRS-CY1JF272F
	R1765	330 1/16W Metal Oxide	VRS-CY1JF331F
	R1766	1.8k 1/16W Metal Oxide	VRS-CY1JF182F
	R1767	12k 1/16W Metal Oxide	VRS-CY1JF123F
	R1774	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1775	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
	R1776	560 1/16W Metal Oxide	VRS-CY1JF561F
	R1777	30k 1/16W Metal Oxide	VRS-CY1JF303F
	R1778	4.7k 1/16W Metal Oxide	VRS-CY1JF472F
	R1779	39k 1/16W Metal Oxide	VRS-CY1JF393F
	R1780	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R1781	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1782	12 1/4W Metal Oxide	VRS-TW2ED120J
	R1783	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
	R1784	12k 1/16W Metal Oxide	VRS-CY1JF123J
	R1785	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R1786	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1788	820 1W Metal Oxide	VRS-CR3AD821J
	R1790	68k 1/8W Metal Oxide	VRS-TQ2BD683J
	R1791	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1792	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1794	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1901	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1902	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1905	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1906	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1907	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1911	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1913	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1915	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1916	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1917	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1920	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1921	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1922	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1923	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1926	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1927	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1928	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1929	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1930	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1931	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1932	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1933	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1934	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1935	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1936	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1937	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1938	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1939	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1940	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1941	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1942	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1943	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1944	100 1/16W Metal Oxide	VRS-CY1JF101J
	R7201	1.0M 1/16W Metal Oxide	VRS-CY1JF105J
	R7202	220 1/16W Metal Oxide	VRS-CY1JF221J
	R7203	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R7205	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R7206	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R7207	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R7208	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R7209	100 1/16W Metal Oxide	VRS-CY1JF101J
	R7210	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R7211	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R7215	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R7216	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R7217	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R7224	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R7225	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R7237	100 1/16W Metal Oxide	VRS-CY1JF101J
	R7238	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R7239	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R7240	1.0k 1/16W Metal Oxide	VRS-CY1JF102J

Mark	No.	Description	Part No.
MISCELLANEOUS PARTS			
⚠	F1702	Fuse 4A	QFS-D0011CEZZ
	FB401	Ferrite Bead	RBLN-0061TAZZ
	FB601	Ferrite Bead	RBLN-0061TAZZ
	FB602	Ferrite Bead	RBLN-0061TAZZ
	FB603	Ferrite Bead	RBLN-0061TAZZ
	FB801	Ferrite Bead	RBLN-0061TAZZ
	FB802	Ferrite Bead	RBLN-0061TAZZ
	FB803	Ferrite Bead	RBLN-0061TAZZ
	FB1701	Ferrite Bead	RBLN-0210TAZZ
	FB1702	Ferrite Bead	RBLN-0210TAZZ
	FB1703	Ferrite Bead	RBLN-0210TAZZ
	FB1704	Ferrite Bead	RBLN-0210TAZZ
	FB1705	Ferrite Bead	RBLN-0210TAZZ
	FB1706	Ferrite Bead	RBLN-0210TAZZ
	FB1707	Ferrite Bead	RBLN-0210TAZZ
	FB1709	Ferrite Bead	RBLN-0210TAZZ
	FB1710	Ferrite Bead	RBLN-0210TAZZ
	FB1711	Ferrite Bead	RBLN-0210TAZZ
	FB1712	Ferrite Bead	RBLN-0210TAZZ
	FB1713	Ferrite Bead	RBLN-0210TAZZ
	FB1714	Ferrite Bead	RBLN-0210TAZZ
	FB1715	Ferrite Bead	RBLN-0210TAZZ
	FB1716	Ferrite Bead	RBLN-0210TAZZ
	FB1717	Ferrite Bead	RBLN-0210TAZZ
	FB1718	Ferrite Bead	RBLN-0210TAZZ
	FB1719	Ferrite Bead	RBLN-0210TAZZ
	FB1720	Ferrite Bead	RBLN-0210TAZZ
	FB1721	Ferrite Bead	RBLN-0210TAZZ
	FB1722	Ferrite Bead	RBLN-0210TAZZ
	FB1723	Ferrite Bead	RBLN-0210TAZZ
	FB1724	Ferrite Bead	RBLN-0051TAZZ
	FB1725	Ferrite Bead	RBLN-0210TAZZ
	FB1727	Ferrite Bead	RBLN-0210TAZZ
	FB1728	Ferrite Bead	RBLN-0210TAZZ
	FB1729	Ferrite Bead	RBLN-0210TAZZ
	FB1730	Ferrite Bead	RBLN-0210TAZZ
	FB1731	Ferrite Bead	RBLN-0006TAZZ
	FB1732	Ferrite Bead	RBLN-0210TAZZ
	FB1733	Ferrite Bead	RBLN-0210TAZZ
	FB1734	Ferrite Bead	RBLN-0210TAZZ
	FB1735	Ferrite Bead	RBLN-0210TAZZ
	FB1736	Ferrite Bead	RBLN-0210TAZZ
	FB1737	Ferrite Bead	RBLN-0210TAZZ
	FB1740	Ferrite Bead	RBLN-0210TAZZ
	FB1741	Ferrite Bead	RBLN-0210TAZZ
	FB1742	Ferrite Bead	RBLN-0210TAZZ
	FB1744	Ferrite Bead	RBLN-0210TAZZ
	FB1745	Ferrite Bead	RBLN-0210TAZZ
	FB1746	Ferrite Bead	RBLN-0210TAZZ
	FB1747	Ferrite Bead	RBLN-0210TAZZ
	FB1748	Ferrite Bead	RBLN-0210TAZZ
	FB1749	Ferrite Bead	RBLN-0210TAZZ
	FB1751	Ferrite Bead	RBLN-0210TAZZ
	FB1752	Ferrite Bead	RBLN-0210TAZZ
	FB1901	Ferrite Bead	RBLN-0060TAZZ
	FB1902	Ferrite Bead	RBLN-0060TAZZ
	FB7201	Ferrite Bead	RBLN-0061TAZZ
	FB7203	Ferrite Bead	RBLN-0061TAZZ
	FH1703	Fuse Holder	QFSHD1002CEZZ
	FH1704	Fuse Holder	QFSHD1002CEZZ
	P1502	Plug 12-pin	QPLGN0549FJZZ
	P1504	Plug 10-pin	QPLGN0060CEZZ
	P1702	Plug 13-pin	QPLGN0550FJZZ
	P1703	Plug 12-pin	QPLGN0062CEZZ
	P1901	Plug 10-pin	QPLGN1094CEZZ
	SC1501	Socket 30-pin	QSOCN0490FJZZ
	SC1502	Socket 50-pin	QSOCN0464FJZZ
	SC1503	Socket 30-pin	QSOCN0550FJZZ
	SC1504	Socket 30-pin	QSOCN0490FJZZ
		Connecting Cord	QCNW-6077CEZZ

B FRONT UNIT

Mark	No.	Description	Part No.
INTEGTATED CIRCUIT			
	IC3401	24LC21T	VHi24LC21//-1
TRANSISTORS			
	Q3401	2SC2735	VS2SC2735//1E
	Q3402	2SC2735	VS2SC2735//1E
	Q3403	2SC2735	VS2SC2735//1E
DIODES			
	D3401	Zener Diode	RH-EX1264CEZZ
	D3402	Diode	VHDMA3120WA-1
	D3403	Diode	VHDMA3120WA-1
	D3404	Diode	VHDMA3120WA-1
	D3405	Zener Diode	RH-EX1264CEZZ
	D3406	Zener Diode	RH-EX1264CEZZ
	D3407	Zener Diode	RH-EX1271CEZZ
	D3408	Zener Diode	RH-EX1271CEZZ
	D3409	Diode	VHDDAN222//-1
FILTERS AND COIL			
	FL3401	Filter	RFiLN0003TAZZ
	FL3402	Filter	RFiLN0003TAZZ
	FL3403	Filter	RFiLN0003TAZZ
	FL3412	Filter	RFiLN0017TAZZ
	FL3413	Filter	RFiLN0017TAZZ
	FL3414	Filter	RFiLN0017TAZZ
	L3401	Peaking 10µH	VP-1M100J1R6N
CAPACITORS			
	C3401	100 6.3V Electrolytic	VCEAPF0JW107M
	C3402	0.01 50V Ceramic	VCKYCY1HF103Z
	C3403	0.1 25V Ceramic	VCKYCY1EF104Z
	C3404	47 16V Electrolytic	VCEAPF1CW476M
	C3405	0.01 50V Ceramic	VCKYCY1HB103K
	C3406	10 16V Electrolytic	VCEAPF1CW106M
	C3407	0.01 50V Ceramic	VCKYCY1HB103K
	C3408	10 16V Electrolytic	VCEAPF1CW106M
	C3409	0.01 50V Ceramic	VCKYCY1HB103K
	C3410	10 16V Electrolytic	VCEAPF1CW106M
	C3411	10 16V Electrolytic	VCEAPF1CN106M
	C3412	10 16V Electrolytic	VCEAPF1CN106M
	C3414	10p 50V Ceramic	VCCCCY1HH100D
	C3415	10 16V Electrolytic	VCEAPF1CN106M
	C3416	0.1 25V Ceramic	VCKYCY1EF104Z
	C3417	10p 50V Ceramic	VCCCCY1HH100D
	C3418	10 16V Electrolytic	VCEAPF1CW106M
	C3420	0.01 50V Ceramic	VCKYCY1HB103K
	C3421	0.01 50V Ceramic	VCKYCY1HB103K
	C3422	0.01 50V Ceramic	VCKYCY1HB103K

Mark	No.	Description	Part No.
	C3423	0.1 25V Ceramic	VCKYCY1EF104Z
	C3426	10 25V Electrolytic	VCEAPW1EN106M
	C3427	10 25V Electrolytic	VCEAPW1EN106M
	C3428	100p 50V Ceramic	VCCCCY1HH101J
	C3429	100p 50V Ceramic	VCCCCY1HH101J
	C3430	56p 50V Ceramic	VCCCCY1HH560J
	C3431	56p 50V Ceramic	VCCCCY1HH560J
	C3432	100p 50V Ceramic	VCCCCY1HH101J
	C3433	1000p 50V Ceramic	VCKYCY1HB102K
	C3434	1000p 50V Ceramic	VCKYCY1HB102K
	C3435	100p 50V Ceramic	VCCCCY1HH101J
RESISTORS			
	R3401	560 1/8W Metal Oxide	VRS-TQ2BD561J
	R3402	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3403	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R3404	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3405	560 1/8W Metal Oxide	VRS-TQ2BD561J
	R3406	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3407	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R3408	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3409	560 1/8W Metal Oxide	VRS-TQ2BD561J
	R3410	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3411	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R3412	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3413	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3414	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3415	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R3416	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3417	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R3418	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R3422	75 1/4W Metal Oxide	VRS-TW2ED750J
	R3423	75 1/4W Metal Oxide	VRS-TW2ED750J
	R3424	75 1/4W Metal Oxide	VRS-TW2ED750J
	R3425	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3427	0 1/16W Metal Oxide	VRS-CY1JF000J
	R3428	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3429	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3430	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3431	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3432	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R3433	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3434	75 1/4W Metal Oxide	VRS-TW2ED750J
	R3435	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3436	270k 1/16W Metal Oxide	VRS-CY1JF274F
	R3437	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R3439	47 1/16W Metal Oxide	VRS-CY1JF470J
	R3440	47 1/16W Metal Oxide	VRS-CY1JF470J
	R3441	47 1/16W Metal Oxide	VRS-CY1JF470J
	R3442	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3443	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3444	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3445	4.7 1/4W Metal Oxide	VRS-TW2ED4R7J
	R3446	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3447	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3448	4.7 1/4W Metal Oxide	VRS-TW2ED4R7J
	R3449	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3450	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3451	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3453	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R3454	2.2k 1/16W Metal Oxide	VRS-CY1JF222J

Mark	No.	Description	Part No.
SWITCHE			
	SW3401	CLEAR Button	QSW-K0069CEZZ
MISCELLANEOUS PARTS			
	FB3401	Ferrite Bead	RBLN-0076TAZZ
	FB3402	Ferrite Bead	RBLN-0060TAZZ
	FB3403	Ferrite Bead	RBLN-0060TAZZ
	FB3404	Ferrite Bead	RBLN-0060TAZZ
	FB3405	Ferrite Bead	RBLN-0062TAZZ
	FB3406	Ferrite Bead	RBLN-0062TAZZ
	FB3407	Ferrite Bead	RBLN-0062TAZZ
	FB3408	Ferrite Bead	RBLN-0062TAZZ
	FB3409	Ferrite Bead	RBLN-0062TAZZ
	FB3410	Ferrite Bead	RBLN-0062TAZZ
	FB3411	Ferrite Bead	RBLN-0062TAZZ
	J3401	Jack, INPUT 4 (S-VIDEO/VIDEO/AUDIO)	QJAKZ0102PEZZ
	J3403	Jack, PC INPUT (AUDIO)	QJAKJ0047CEZZ
	P3401	Plug, 12-pin	QPLGN1278GEZZ
	P3402	Plug, 18-pin	QPLGN0428FJZZ
	SC3401	Socket, PC INPUT (ANALOG RGB)	QSOCN1594CEZZ

C AV UNIT

TUNER

	TU1101	Tuner	VTUVT4T5FD203

INTEGRATED CIRCUITS

	IC1102	M62320FP	VHiM62320FP-1
	IC1103	BA05FP	VHiBA05FP++-1
	IC1104	MM1506XNRE	VHiMM1506XN-1
	IC1105	MM1506XNRE	VHiMM1506XN-1
	IC1301	CXA2069Q	VHiCXA2069Q-1
	IC1401	MM1519XQ	VHiMM1519XQ-1
	IC1601	I.C.	VHiSDA5550M-1
	IC1602	I.C.	RH-iXA134WJN1
	IC1603	I.C.	VHi62S8308X-1
	IC1604	MM1501XNRE	VHiMM1501XN-1
	IC1605	TC7WH157FK	VHi7WH157FK-1
	IC1606	BA033FP-E2	VHiBA033FP/-1
	IC1607	IC-PST9121NR	VHiPST9121N-1
	IC1608	SN74LVC157APWR	VHiLVC157T+-1
	IC1609	SN74LVC04APWR	VHiLVC04AT+-1
	IC1611	IC-PST9128NR	VHiPST9128N-1
	IC1612	I.C.	VHiTC7SZ08U-1
	IC1613	BA25BC0FP	VHiBA025FP+-1
	IC1614	TC74VHC08FT	VHiTCVHC08T-1
	IC1615	TC74LVX86FT	VHi74LVX86T-1
	IC1616	I.C.	VHiNC7SZ58P-1
	IC2501	MSP3410G-QA-B5	RH-iX3371CEZZ
	IC2503	PST529DMT	VHiPST529DM-1
	IC2504	NJM4560M	VHiNJM4560M-1

TRANSISTORS

	Q1101	DTC314TK	VSDTC314TK/-1
	Q1102	DTC314TK	VSDTC314TK/-1
	Q1103	2SC3928AR	VS2SC3928AR-1
	Q1104	DTC314TK	VSDTC314TK/-1
	Q1105	2SC3928AR	VS2SC3928AR-1

Mark	No.	Description	Part No.
	Q1106	2SC3928AR	VS2SC3928AR-1
	Q1107	DTC314TK	VSDTC314TK/-1
	Q1108	2SC3928AR	VS2SC3928AR-1
	Q1109	DTC314TK	VSDTC314TK/-1
	Q1110	2SC3928AR	VS2SC3928AR-1
	Q1111	2SC3928AR	VS2SC3928AR-1
	Q1112	DTC314TK	VSDTC314TK/-1
	Q1113	2SC3928AR	VS2SC3928AR-1
	Q1114	2SC3928AR	VS2SC3928AR-1
	Q1115	2SC3928AR	VS2SC3928AR-1
	Q1116	DTC314TK	VSDTC314TK/-1
	Q1117	DTC314TK	VSDTC314TK/-1
	Q1119	2SC3928AR	VS2SC3928AR-1
	Q1120	2SC3928AR	VS2SC3928AR-1
	Q1121	2SC3928AR	VS2SC3928AR-1
	Q1122	2SC3928AR	VS2SC3928AR-1
	Q1123	2SA1530AR	VS2SA1530AR-1
	Q1124	2SC3928AR	VS2SC3928AR-1
	Q1125	2SC3928AR	VS2SC3928AR-1
	Q1126	2SC3928AR	VS2SC3928AR-1
	Q1127	DTC144EE	VSDTC144EE/-1
	Q1128	DTA144EE	VSDTA144EE/-1
	Q1129	DTC144EE	VSDTC144EE/-1
	Q1130	DTA144EE	VSDTA144EE/-1
	Q1131	2SA1530AR	VS2SA1530AR-1
	Q1132	2SC3928AR	VS2SC3928AR-1
	Q1134	2SC3928AR	VS2SC3928AR-1
	Q1135	2SA1530AR	VS2SA1530AR-1
	Q1401	2SC3928AR	VS2SC3928AR-1
	Q1402	2SC3928AR	VS2SC3928AR-1
	Q1403	2SA1530AR	VS2SA1530AR-1
	Q1404	2SC3928AR	VS2SC3928AR-1
	Q1405	2SA1530AR	VS2SA1530AR-1
	Q1406	2SA1530AR	VS2SA1530AR-1
	Q1407	2SA1530AR	VS2SA1530AR-1
	Q1601	2SC3928AR	VS2SC3928AR-1
	Q1602	2SC3928AR	VS2SC3928AR-1
	Q1604	2SC3928AR	VS2SC3928AR-1
	Q1605	2SA1530AR	VS2SA1530AR-1
	Q1606	2SC3928AR	VS2SC3928AR-1
	Q1607	2SA1530AR	VS2SA1530AR-1
	Q1608	DTC144TE	VSDTC144TE/-1
	Q1609	2SA1530AR	VS2SA1530AR-1
	Q1610	2SA1530AR	VS2SA1530AR-1
	Q1611	2SA1530AR	VS2SA1530AR-1
	Q1612	2SA1530AR	VS2SA1530AR-1
	Q2502	2SA1530AR	VS2SA1530AR-1
	Q2503	2SA1530AR	VS2SA1530AR-1
	Q2504	2SA1530AR	VS2SA1530AR-1
	Q2505	2SA1530AR	VS2SA1530AR-1
	Q2506	2SA1530AR	VS2SA1530AR-1
	Q2507	DTA144EE	VSDTA144EE/-1
	Q2508	DTC144EE	VSDTC144EE/-1
	Q2509	2SC3928AR	VS2SC3928AR-1
	Q2510	2SC3928AR	VS2SC3928AR-1

DIODES

D1102	Zener Diode	RH-EX1264CEZZ
D1105	Zener Diode	RH-EX1264CEZZ
D1114	Zener Diode	RH-EX1264CEZZ
D1119	Zener Diode	RH-EX1264CEZZ
D1122	Zener Diode	RH-EX1264CEZZ
D1128	Zener Diode	RH-EX0674GEZZ
D1130	Zener Diode	RH-EX0882CEZZ
D1131	Zener Diode	RH-EX0882CEZZ
D1132	Zener Diode	RH-EX0882CEZZ
D1133	Zener Diode	RH-EX0882CEZZ
D1134	Diode	VHDHSU119//-1
D1135	Diode	VHDHSU119//-1
D1136	Diode	VHDHSU119//-1
D1302	Zener Diode	RH-EX1264CEZZ
D1303	Zener Diode	RH-EX1264CEZZ
D1305	Zener Diode	RH-EX1264CEZZ
D1306	Zener Diode	RH-EX1264CEZZ
D1308	Zener Diode	RH-EX1264CEZZ
D1309	Zener Diode	RH-EX1264CEZZ
D1310	Zener Diode	RH-EX1264CEZZ
D1311	Zener Diode	RH-EX1264CEZZ
D1312	Zener Diode	RH-EX1264CEZZ
D1313	Zener Diode	RH-EX1264CEZZ
D1401	Zener Diode	RH-EX1264CEZZ
D1402	Zener Diode	RH-EX1264CEZZ
D1403	Zener Diode	RH-EX1264CEZZ
D1406	Diode	VHDMA157A//-1
D1407	Diode	VHDMA157A//-1
D1411	Zener Diode	RH-EX1264CEZZ
D1412	Zener Diode	RH-EX1264CEZZ
D1413	Zener Diode	RH-EX1264CEZZ
D1602	Diode	VHDHSU119//-1
D2502	Diode	VHDDAN222//-1
D2503	Diode	VHD1SS250//1E
D2504	Diode	VHD1SS250//1E
D2505	Diode	VHDMA157A//-1
D2506	Diode	VHDHSU119//-1
D2507	Diode	VHDHSU119//-1

PACKAGED CIRCUITS

X1601	Crystal	RCRSCA002WJZZ
X2501	Crystal	RCRSB0250GEZZ

FILTERS AND COILS

FL1105	Filter	RFiLN0017TAZZ
FL1106	Filter	RFiLN0017TAZZ
FL1107	Filter	RFiLN0017TAZZ
FL1108	Filter	RFiLN0017TAZZ
FL1109	Filter	RFiLN0017TAZZ
FL1112	Filter	RFiLN0017TAZZ
FL1113	Filter	RFiLN0017TAZZ
FL1114	Filter	RFiLN0017TAZZ
FL1118	Filter	RFiLN0017TAZZ
FL1119	Filter	RFiLN0017TAZZ
FL1120	Filter	RFiLN0017TAZZ
FL1121	Filter	RFiLN0017TAZZ
FL1122	Filter	RFiLN0017TAZZ
FL1125	Filter	RFiLN0017TAZZ
FL1126	Filter	RFiLN0017TAZZ
FL1127	Filter	RFiLN0017TAZZ
FL1128	Filter	RFiLN0017TAZZ
FL1133	Filter	RFiLN0017TAZZ
FL1134	Filter	RFiLN0017TAZZ
L1101	Peaking 4.7µH	VP-1M4R7J1R2N
L1102	Peaking 2.7µH	VP-1M2R7JR85N
L1103	Peaking 4.7µH	VP-1M4R7J1R2N
L1104	Peaking 3.3µH	VP-1M3R3JR93N
L1105	Peaking 5.6µH	VP-1M5R6J1R2N
L1106	Peaking 3.3µH	VP-1M3R3JR93N

Mark	No.	Description	Part No.
	L1107	Peaking 4.7µH	VP-1M4R7J1R2N
	L1108	Peaking 2.7µH	VP-1M2R7JR85N
	L1109	Peaking 4.7µH	VP-1M4R7J1R2N
	L1110	Peaking 4.7µH	VP-1M4R7J1R2N
	L1111	Peaking 10µH	VP-1M100J1R6N
	L1401	Peaking 10µH	VP-1M100J1R6N
	L1601	Peaking 27µH	VP-1M270J3R8N
	L2501	Peaking 100µH	VP-1M101J7R7N
	L2502	Peaking 4.7µH	VP-1M4R7J1R2N
	L2503	Peaking 100µH	VP-1M101J7R7N
CONTROL			
	R1142	1k (B) Video level adj.	RVR-M7997TAZZ
CAPACITORS			
	C1101	100p 50V Ceramic	VCCCCY1HH101J
	C1102	1.0 16V Ceramic	VCKYTV1CB105K
	C1103	10p 50V Ceramic	VCCCCY1HH100D
	C1104	220p 50V Ceramic	VCCCCY1HH221J
	C1105	1.0 16V Ceramic	VCKYTV1CB105K
	C1106	1000p 50V Ceramic	VCKYCY1HB102K
	C1107	1000p 50V Ceramic	VCKYCY1HB102K
	C1108	56p 50V Ceramic	VCCCCY1HH560J
	C1109	56p 50V Ceramic	VCCCCY1HH560J
	C1110	1.0 16V Ceramic	VCKYTV1CB105K
	C1111	10p 50V Ceramic	VCCCCY1HH100D
	C1112	1.0 16V Ceramic	VCKYTV1CB105K
	C1113	1.0 16V Ceramic	VCKYTV1CB105K
	C1114	1.0 16V Ceramic	VCKYTV1CB105K
	C1115	330p 50V Ceramic	VCKYCY1HB331K
	C1116	330p 50V Ceramic	VCKYCY1HB331K
	C1117	470p 50V Ceramic	VCKYCY1HB471K
	C1118	470p 50V Ceramic	VCKYCY1HB471K
	C1119	1.0 16V Ceramic	VCKYTV1CB105K
	C1120	1.0 16V Ceramic	VCKYTV1CB105K
	C1121	1.0 16V Ceramic	VCKYTV1CB105K
	C1122	1.0 16V Ceramic	VCKYTV1CB105K
	C1123	100p 50V Ceramic	VCCCCY1HH101J
	C1124	1.0 16V Ceramic	VCKYTV1CB105K
	C1125	10p 50V Ceramic	VCCCCY1HH100D
	C1126	220p 50V Ceramic	VCKYCY1HB221K
	C1127	1.0 16V Ceramic	VCKYTV1CB105K
	C1128	1000p 50V Ceramic	VCKYCY1HB102K
	C1129	1000p 50V Ceramic	VCKYCY1HB102K
	C1130	56p 50V Ceramic	VCCCCY1HH560J
	C1131	56p 50V Ceramic	VCCCCY1HH560J
	C1132	1.0 16V Ceramic	VCKYTV1CB105K
	C1133	47 16V Electrolytic	VCEAPF1CW476M
	C1134	0.1 25V Ceramic	VCKYCY1EF104Z
	C1135	10p 50V Ceramic	VCCCCY1HH100D
	C1136	0.1 25V Ceramic	VCKYCY1EF104Z
	C1137	330p 50V Ceramic	VCKYCY1HB331K
	C1138	330p 50V Ceramic	VCKYCY1HB331K
	C1139	470p 50V Ceramic	VCKYCY1HB471K
	C1140	470p 50V Ceramic	VCKYCY1HB471K
	C1141	1.0 16V Ceramic	VCKYTV1CB105K
	C1142	1.0 16V Ceramic	VCKYTV1CB105K
	C1143	1.0 16V Ceramic	VCKYTV1CB105K
	C1144	1.0 16V Ceramic	VCKYTV1CB105K
	C1145	100p 50V Ceramic	VCCCCY1HH101J
	C1146	1.0 16V Ceramic	VCKYTV1CB105K
	C1147	10p 50V Ceramic	VCCCCY1HH100D
	C1148	220p 50V Ceramic	VCKYCY1HB221K
	C1149	1.0 16V Ceramic	VCKYTV1CB105K
	C1150	1000p 50V Ceramic	VCKYCY1HB102K
	C1151	1000p 50V Ceramic	VCKYCY1HB102K
	C1152	56p 50V Ceramic	VCCCCY1HH560J
	C1153	56p 50V Ceramic	VCCCCY1HH560J
	C1154	1.0 16V Ceramic	VCKYTV1CB105K
	C1155	10p 50V Ceramic	VCCCCY1HH100D
	C1156	1.0 16V Ceramic	VCKYTV1CB105K
	C1157	1.0 16V Ceramic	VCKYTV1CB105K
	C1158	1.0 16V Ceramic	VCKYTV1CB105K
	C1159	330p 50V Ceramic	VCKYCY1HB331K
	C1160	330p 50V Ceramic	VCKYCY1HB331K
	C1161	470p 50V Ceramic	VCKYCY1HB471K
	C1162	470p 50V Ceramic	VCKYCY1HB471K
	C1163	1.0 16V Ceramic	VCKYTV1CB105K
	C1164	1.0 16V Ceramic	VCKYTV1CB105K
	C1165	1.0 16V Ceramic	VCKYTV1CB105K
	C1166	1.0 16V Ceramic	VCKYTV1CB105K
	C1167	10 16V Electrolytic	VCEAPF1CN106M
	C1168	470 16V Electrolytic	VCEAPW1CN477M
	C1169	10 16V Electrolytic	VCEAPF1CN106M
	C1170	1.0 16V Ceramic	VCKYTV1CB105K
	C1171	1.0 16V Ceramic	VCKYTV1CB105K
	C1172	10 16V Electrolytic	VCEAPF1CN106M
	C1173	1.0 16V Ceramic	VCKYTV1CB105K
	C1174	1.0 16V Ceramic	VCKYTV1CB105K
	C1175	0.01 50V Ceramic	VCKYCY1HB103K
	C1176	470 16V Electrolytic	VCEAPW1CN477M
	C1177	470 16V Electrolytic	VCEAPW1CN477M
	C1178	0.1 25V Ceramic	VCKYCY1EF104Z
	C1179	47 16V Electrolytic	VCEAPF1CW476M
	C1180	0.1 25V Ceramic	VCKYCY1EF104Z
	C1181	47 16V Electrolytic	VCEAPF1CW476M
	C1182	0.01 50V Ceramic	VCKYCY1HB103K
	C1183	56p 50V Ceramic	VCCCCY1HH560J
	C1184	56p 50V Ceramic	VCCCCY1HH560J
	C1185	270p 50V Ceramic	VCCCCY1HH271J
	C1187	120p 50V Ceramic	VCCCCY1HH121J
	C1188	82p 50V Ceramic	VCCCCY1HH820J
	C1189	18p 50V Ceramic	VCCCCY1HH180J
	C1190	150p 50V Ceramic	VCCCCY1HH151J
	C1191	120p 50V Ceramic	VCCCCY1HH121J
	C1192	0.01 50V Ceramic	VCKYCY1HB103K
	C1193	47 16V Electrolytic	VCEAPF1CW476M
	C1194	0.1 25V Ceramic	VCKYCY1EF104Z
	C1195	0.1 25V Ceramic	VCKYCY1EF104Z
	C1196	100 6.3V Electrolytic	VCEAPF0JW107M
	C1197	100p 50V Ceramic	VCCCCY1HH101J
	C1198	100p 50V Ceramic	VCCCCY1HH101J
	C1199	470 6.3V Electrolytic	VCEAPW0JN477M
	C1200	0.1 25V Ceramic	VCKYCY1EF104Z
	C1201	0.01 50V Ceramic	VCKYCY1HF103Z
	C1202	1000p 50V Ceramic	VCKYCY1HB102K
	C1203	0.1 25V Ceramic	VCKYCY1EF104Z
	C1204	10 16V Electrolytic	VCEAPF1CW106M
	C1205	0.1 25V Ceramic	VCKYCY1EF104Z
	C1206	0.01 50V Ceramic	VCKYCY1HB103K

Mark	No.	Description	Part No.
	C1207	470 16V Electrolytic	VCEAPW1CN477M
	C1208	470 16V Electrolytic	VCEAPW1CN477M
	C1209	1.0 50V Electrolytic	VCEAPF1HW105M
	C1210	33p 50V Ceramic	VCCCCY1HH330J
	C1211	33p 50V Ceramic	VCCCCY1HH330J
	C1212	10 16V Electrolytic	VCEAPF1CW106M
	C1213	0.1 25V Ceramic	VCKYCY1EF104Z
	C1215	100p 50V Ceramic	VCCCCY1HH101J
	C1216	100p 50V Ceramic	VCCCCY1HH101J
	C1217	0.1 25V Ceramic	VCKYCY1EF104Z
	C1218	100 16V Electrolytic	VCEAPW1CN107M
	C1219	100 6.3V Electrolytic	VCEAPW0JN107M
	C1220	0.1 25V Ceramic	VCKYCY1EF104Z
	C1222	10 16V Electrolytic	VCEAPF1CW106M
	C1224	10 16V Electrolytic	VCEAPF1CW106M
	C1225	270p 50V Ceramic	VCCCCY1HH271J
	C1226	10 16V Electrolytic	VCEAPF1CW106M
	C1227	1000p 50V Ceramic	VCKYCY1HB102K
	C1228	120p 50V Ceramic	VCCCCY1HH121J
	C1229	220p 50V Ceramic	VCCCCY1HH221J
	C1231	0.1 25V Ceramic	VCKYCY1EF104Z
	C1232	0.1 25V Ceramic	VCKYCY1EF104Z
	C1233	10 16V Electrolytic(N.P)	VCE9PF1CW106M
	C1234	1000p 50V Ceramic	VCKYCY1HB102K
	C1235	10 16V Electrolytic(N.P)	VCE9PF1CW106M
	C1301	470p 50V Ceramic	VCKYCY1HB471K
	C1302	470p 50V Ceramic	VCKYCY1HB471K
	C1303	470p 50V Ceramic	VCKYCY1HB471K
	C1304	470p 50V Ceramic	VCKYCY1HB471K
	C1305	470p 50V Ceramic	VCKYCY1HB471K
	C1306	470p 50V Ceramic	VCKYCY1HB471K
	C1307	470p 50V Ceramic	VCKYCY1HB471K
	C1308	470p 50V Ceramic	VCKYCY1HB471K
	C1309	0.1 25V Ceramic	VCKYCY1EF104Z
	C1310	0.1 25V Ceramic	VCKYCY1EF104Z
	C1311	22 16V Electrolytic	VCEAPF1CW226M
	C1312	10 10V Electrolytic(N.P)	VCE9PF1AW106M
	C1316	1.0 16V Ceramic	VCKYTV1CB105K
	C1317	10 16V Electrolytic	VCEAPF1CW106M
	C1318	0.01 50V Ceramic	VCKYCY1HB103K
	C1320	1000p 50V Ceramic	VCKYCY1HB102K
	C1321	1000p 50V Ceramic	VCKYCY1HB102K
	C1322	0.01 50V Ceramic	VCKYCY1HB103K
	C1323	1.0 16V Ceramic	VCKYTV1CB105K
	C1401	0.1 16V Ceramic	VCKYCY1CB104K
	C1402	0.1 16V Ceramic	VCKYCY1CB104K
	C1403	0.1 16V Ceramic	VCKYCY1CB104K
	C1404	0.1 16V Ceramic	VCKYCY1CB104K
	C1405	0.1 25V Ceramic	VCKYCY1EF104Z
	C1406	0.1 25V Ceramic	VCKYCY1EF104Z
	C1407	0.1 25V Ceramic	VCKYCY1EF104Z
	C1408	0.1 25V Ceramic	VCKYCY1EF104Z
	C1409	100 16V Electrolytic	VCEAPF1CW107M
	C1410	0.1 16V Ceramic	VCKYCY1CB104K
	C1411	0.1 16V Ceramic	VCKYCY1CB104K
	C1412	1.0 16V Ceramic	VCKYTV1CB105K
	C1413	1.0 16V Ceramic	VCKYTV1CB105K
	C1414	1.0 16V Ceramic	VCKYTV1CB105K
	C1415	0.1 25V Ceramic	VCKYCY1EF104Z
	C1417	0.1 25V Ceramic	VCKYCY1EF104Z
	C1418	1.0 16V Ceramic	VCKYTV1CB105K
	C1419	0.1 25V Ceramic	VCKYCY1EF104Z
	C1422	100 16V Electrolytic	VCEAPE1CW107M
	C1601	100 6.3V Electrolytic	VCEAPF0JW107M
	C1602	0.1 25V Ceramic	VCKYCY1EF104Z
	C1603	0.01 50V Ceramic	VCKYCY1HB103K
	C1604	0.01 50V Ceramic	VCKYCY1HB103K
	C1605	22 6.3V Electrolytic(N.P)	VCE9PF0JW226M
	C1606	100 16V Electrolytic	VCEAPF1CW107M
	C1607	0.01 50V Ceramic	VCKYCY1HF103Z
	C1608	1.0 10V Ceramic	VCKYCY1AF105Z
	C1609	0.33 16V Ceramic	VCKYCY1CF334Z
	C1610	0.1 25V Ceramic	VCKYCY1EF104Z
	C1611	47 6.3V Electrolytic	VCEAPF0JW476M
	C1612	47 6.3V Electrolytic	VCEAPF0JW476M
	C1613	22 16V Electrolytic	VCEAPF1CW226M
	C1614	100 6.3V Electrolytic	VCEAPF0JW107M
	C1616	180p 50V Ceramic	VCCCCY1HH181J
	C1617	47 6.3V Electrolytic	VCEAPF0JW476M
	C1618	47 6.3V Electrolytic	VCEAPF0JW476M
	C1619	0.1 25V Ceramic	VCKYCY1EF104Z
	C1621	0.1 25V Ceramic	VCKYCY1EF104Z
	C1622	0.1 25V Ceramic	VCKYCY1EF104Z
	C1623	22 6.3V Electrolytic(N.P)	VCE9PF0JW226M
	C1624	0.1 25V Ceramic	VCKYCY1EF104Z
	C1625	0.1 25V Ceramic	VCKYCY1EF104Z
	C1626	0.1 25V Ceramic	VCKYCY1EF104Z
	C1627	1.0 16V Ceramic	VCKYTV1CB105K
	C1628	0.1 25V Ceramic	VCKYCY1EF104Z
	C1629	0.1 25V Ceramic	VCKYCY1EF104Z
	C1630	0.1 25V Ceramic	VCKYCY1EF104Z
	C1631	0.1 25V Ceramic	VCKYCY1EF104Z
	C1632	0.1 25V Ceramic	VCKYCY1EF104Z
	C1633	33p 50V Ceramic	VCCCCY1HH330J
	C1634	33p 50V Ceramic	VCCCCY1HH330J
	C1635	0.1 25V Ceramic	VCKYCY1EF104Z
	C1636	0.1 25V Ceramic	VCKYCY1EF104Z
	C1637	0.1 25V Ceramic	VCKYCY1EF104Z
	C1638	0.1 25V Ceramic	VCKYCY1EF104Z
	C1639	0.1 25V Ceramic	VCKYCY1EF104Z
	C1640	0.1 25V Ceramic	VCKYCY1EF104Z
	C1641	220 6.3V Electrolytic	VCEAPF0JW227M
	C1642	0.1 25V Ceramic	VCKYCY1EF104Z
	C1644	0.1 25V Ceramic	VCKYCY1EF104Z
	C1645	0.1 25V Ceramic	VCKYCY1EF104Z
	C1646	0.1 25V Ceramic	VCKYCY1EF104Z
	C1647	0.33 16V Ceramic	VCKYCY1CF334Z
	C1648	0.1 25V Ceramic	VCKYCY1EF104Z
	C1649	0.1 25V Ceramic	VCKYCY1EF104Z
	C1650	0.1 25V Ceramic	VCKYCY1EF104Z
	C1653	220 6.3V Electrolytic	VCEAPF0JW227M
	C1654	220 6.3V Electrolytic	VCEAPF0JW227M
	C2501	0.1 25V Ceramic	VCKYCY1EF104Z
	C2502	100 6.3V Electrolytic	VCEAPF0JW107M
	C2503	0.1 25V Ceramic	VCKYCY1EF104Z
	C2504	100 16V Electrolytic	VCEAPF1CW107M
	C2508	1500p 50V Ceramic	VCKYCY1HB152K
	C2509	560p 50V Ceramic	VCKYCY1HB561K
	C2510	2.2 50V Electrolytic	VCEAPF1HW225M
	C2511	2.2 50V Electrolytic	VCEAPF1HW225M

Mark	No.	Description	Part No.
	C2512	3300p 50V Ceramic	VCKYCY1HB332K
	C2513	3300p 50V Ceramic	VCKYCY1HB332K
	C2514	3300p 50V Ceramic	VCKYCY1HB332K
	C2515	3300p 50V Ceramic	VCKYCY1HB332K
	C2516	10 16V Electrolytic	VCEAPF1CW106M
	C2517	10 16V Electrolytic	VCEAPF1CW106M
	C2518	0.1 25V Ceramic	VCKYCY1EF104Z
	C2519	100 16V Electrolytic	VCEAPF1CW107M
	C2520	100 16V Electrolytic	VCEAPF1CW107M
	C2521	3.3 50V Electrolytic	VCEAPF1HW335M
	C2522	0.1 25V Ceramic	VCKYCY1EF104Z
	C2523	1.0 16V Ceramic	VCKYTV1CB105K
	C2524	1.0 16V Ceramic	VCKYTV1CB105K
	C2525	1.0 16V Ceramic	VCKYTV1CB105K
	C2526	1.0 16V Ceramic	VCKYTV1CB105K
	C2527	0.1 25V Ceramic	VCKYCY1EF104Z
	C2528	10 16V Electrolytic	VCEAPF1CW106M
	C2529	1.0 16V Ceramic	VCKYTV1CB105K
	C2530	100 6.3V Electrolytic	VCEAPF0JW107M
	C2531	56p 50V Ceramic	VCCCCY1HH560J
	C2532	56p 50V Ceramic	VCCCCY1HH560J
	C2533	56p 50V Ceramic	VCCCCY1HH560J
	C2534	5.0p 50V Ceramic	VCCCCY1HH5R0C
	C2535	5.0p 50V Ceramic	VCCCCY1HH5R0C
	C2536	470 6.3V Electrolytic	VCEAPW0JN477M
	C2537	1 50V Ceramic	RC-KZ1025CEZZ
	C2538	1.0 16V Ceramic	VCKYTV1CB105K
	C2539	1.0 16V Ceramic	VCKYTV1CB105K
	C2540	0.01 50V Ceramic	VCKYCY1HB103K
	C2541	10 16V Electrolytic	VCEAPF1CN106M
	C2542	560p 50V Ceramic	VCKYCY1HB561K
	C2543	1500p 50V Ceramic	VCKYCY1HB152K

RESISTORS

	R1103	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1104	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1105	4.7 1/4W Metal Oxide	VRS-TW2ED4R7J
	R1106	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1108	1.0k 1/16W Metal Oxide	VRS-CA1JF102J
	R1109	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1110	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1111	1.0k 1/16W Metal Oxide	VRS-CA1JF102J
	R1114	68 1/2W Metal Oxide	VRS-TX2HF680J
	R1115	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1116	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1117	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1118	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1122	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1123	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1124	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1125	220 1/16W Metal Oxide	VRS-TV1JD221J
	R1126	220 1/16W Metal Oxide	VRS-TV1JD221J
	R1127	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1128	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1129	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1130	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1131	560k 1/16W Metal Oxide	VRS-CY1JF564J
	R1132	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1133	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R1134	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1135	4.7 1/4W Metal Oxide	VRS-TW2ED4R7J
	R1136	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1138	1.0k 1/16W Metal Oxide	VRS-CA1JF102J
	R1139	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1140	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1141	1.0k 1/16W Metal Oxide	VRS-CA1JF102J
	R1143	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1144	560k 1/16W Metal Oxide	VRS-CY1JF564J
	R1145	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1146	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1147	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1148	68 1/2W Metal Oxide	VRS-TX2HF680J
	R1149	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1150	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1152	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1153	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1154	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1155	220 1/16W Metal Oxide	VRS-TV1JD221J
	R1156	220 1/16W Metal Oxide	VRS-TV1JD221J
	R1157	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1158	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1159	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1160	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1161	560k 1/16W Metal Oxide	VRS-CY1JF564J
	R1162	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1163	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1164	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1165	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1166	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1167	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1168	560k 1/16W Metal Oxide	VRS-CY1JF564J
	R1171	4.7 1/4W Metal Oxide	VRS-TW2ED4R7J
	R1172	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1173	1.0k 1/8W Metal Oxide	VRS-TQ2BD102J
	R1174	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1176	1.0k 1/16W Metal Oxide	VRS-CA1JF102J
	R1178	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1179	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1180	1.0k 1/16W Metal Oxide	VRS-CA1JF102J
	R1182	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1183	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1184	68 1/2W Metal Oxide	VRS-TX2HF680J
	R1185	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1186	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1187	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1188	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1189	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R1191	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R1192	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1193	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1194	75 1/4W Metal Oxide	VRS-TW2ED750J
	R1195	220 1/16W Metal Oxide	VRS-TV1JD221J
	R1196	220 1/16W Metal Oxide	VRS-TV1JD221J
	R1197	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1198	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1199	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1200	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1201	560k 1/16W Metal Oxide	VRS-CY1JF564J
	R1202	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1203	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1204	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1205	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1206	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1207	1.0k 1/16W Metal Oxide	VRS-CY1JF102J

Mark	No.	Description	Part No.
	R1208	560k 1/16W Metal Oxide	VRS-CY1JF564J
	R1209	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R1210	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1211	100k 1/16W Metal Oxide	VRS-TV1JD104J
	R1212	68 1/2W Metal Oxide	VRS-TX2HF680J
	R1213	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R1214	560 1/2W Metal Oxide	VRS-TX2HF561J
	R1215	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1216	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1217	270 1/16W Metal Oxide	VRS-CY1JF271J
	R1218	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1219	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1220	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R1222	270 1/16W Metal Oxide	VRS-CY1JF271J
	R1223	560k 1/16W Metal Oxide	VRS-CY1JF564J
	R1224	560k 1/16W Metal Oxide	VRS-CY1JF564J
	R1225	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1226	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1227	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1228	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1229	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1230	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1231	68 1/2W Metal Oxide	VRS-TX2HF680J
	R1232	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1233	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R1234	68 1/2W Metal Oxide	VRS-TX2HF680J
	R1235	220k 1/16W Metal Oxide	VRS-CY1JF224J
	R1236	220k 1/16W Metal Oxide	VRS-CY1JF224J
	R1237	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1238	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R1239	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R1240	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1241	220 1/16W Metal Oxide	VRS-CY1JF221J
	R1242	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
	R1243	680 1/16W Metal Oxide	VRS-CY1JF681J
	R1244	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1245	180 1/16W Metal Oxide	VRS-CY1JF181J
	R1246	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1247	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1248	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R1249	220 1/16W Metal Oxide	VRS-CY1JF221J
	R1250	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
	R1251	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R1252	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1253	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R1254	220 1/16W Metal Oxide	VRS-CY1JF221J
	R1256	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1257	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1258	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1259	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1260	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1261	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
	R1262	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1263	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1264	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R1265	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R1266	470 1/2W Metal Oxide	VRS-TX2HF471J
	R1267	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1268	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1269	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1270	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1272	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1273	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1274	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1275	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1277	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1278	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1281	220 1/16W Metal Oxide	VRS-CY1JF221J
	R1282	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1283	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1284	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1285	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1286	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1287	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1288	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1289	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1290	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1291	220 1/16W Metal Oxide	VRS-CY1JF221J
	R1292	16k 1/16W Metal Oxide	VRS-CY1JF163J
	R1293	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
	R1294	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1295	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R1296	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1297	12k 1/16W Metal Oxide	VRS-CY1JF123J
	R1298	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1302	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1303	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1304	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1309	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1310	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1311	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1312	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1314	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1315	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1316	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1317	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1319	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1320	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1321	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1322	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1323	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1324	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1325	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1326	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1327	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1328	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1329	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1330	1.0k 1/16W Metal Oxide	VRS-TV1JD102J
	R1331	100 1/16W Metal Oxide	VRS-CA1JF101J
	R1334	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1335	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1336	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1337	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1338	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1339	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1340	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1341	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1342	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1343	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1344	0 1/16W Metal Oxide	VRS-CY1JF000J

Mark	No.	Description	Part No.
	R1345	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1346	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1347	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R1348	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1405	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1406	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1407	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1411	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1412	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1413	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1418	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1421	100 1/16W Metal Oxide	VRS-CA1JF101J
	R1422	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1423	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1424	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1425	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1429	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1430	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1431	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1432	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1433	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1434	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1435	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1436	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1437	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1438	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1439	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1443	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1444	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1445	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1446	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1455	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1456	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1457	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1458	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1459	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1460	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1461	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1462	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1463	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1464	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1465	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1602	2.0k 1/16W Metal Oxide	VRS-CY1JF202J
	R1603	2.0k 1/16W Metal Oxide	VRS-CY1JF202J
	R1604	27k 1/16W Metal Oxide	VRS-CY1JF273J
	R1605	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R1607	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1609	680 1/16W Metal Oxide	VRS-CY1JF681J
	R1611	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1613	1.3k 1/16W Metal Oxide	VRS-CY1JF132J
	R1616	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1617	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1618	00 1/16W Metal Oxide	VRS-CY1JF000J
	R1619	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1620	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1621	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1622	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1623	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
	R1624	1.5k 1/16W Metal Oxide	VRS-CY1JF152F
	R1625	68k 1/16W Metal Oxide	VRS-CY1JF683F
	R1626	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1627	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
	R1628	680 1/16W Metal Oxide	VRS-CY1JF681F
	R1629	680 1/16W Metal Oxide	VRS-CY1JF681F
	R1630	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
	R1634	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1635	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1636	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1640	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1641	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1642	220 1/16W Metal Oxide	VRS-CY1JF221J
	R1643	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1645	10k 1/16W Metal Oxide	VRS-CY1JF103F
	R1648	47k 1/16W Metal Oxide	VRS-CY1JF473F
	R1649	33k 1/16W Metal Oxide	VRS-CY1JF333F
	R1650	47k 1/16W Metal Oxide	VRS-CY1JF473F
	R1651	10k 1/16W Metal Oxide	VRS-CY1JF103F
	R1652	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1653	47k 1/16W Metal Oxide	VRS-CY1JF473F
	R1654	10k 1/16W Metal Oxide	VRS-CY1JF103F
	R1655	220 1/16W Metal Oxide	VRS-CY1JF221J
	R1656	220 1/16W Metal Oxide	VRS-CY1JF221J
	R1661	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R1662	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1663	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1664	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1665	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1666	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1667	33k 1/16W Metal Oxide	VRS-CY1JF333J
	R1668	3.3k 1/16W Metal Oxide	VRS-CB1JF332J
	R1669	3.3k 1/16W Metal Oxide	VRS-CB1JF332J
	R1670	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1671	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1672	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1673	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1674	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1675	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1990	68k 1/16W Metal Oxide	VRS-CY1JF683J
	R2501	100 1/16W Metal Oxide	VRS-CA1JF101J
	R2502	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R2503	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R2505	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2506	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R2507	8.2k 1/16W Metal Oxide	VRS-CY1JF822F
	R2508	8.2k 1/16W Metal Oxide	VRS-CY1JF822F
	R2509	8.2k 1/16W Metal Oxide	VRS-CY1JF822F
	R2510	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R2511	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R2512	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R2513	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2514	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2515	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2516	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2517	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2518	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2519	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2520	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2521	0 1/16W Metal Oxide	VRS-CA1JF000J
	R2522	0 1/16W Metal Oxide	VRS-CA1JF000J
	R2523	1.0M 1/16W Metal Oxide	VRS-CY1JF105J

Mark	No.	Description	Part No.
	R2524	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R2525	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R2526	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R2527	0 1/16W Metal Oxide	VRS-CY1JF000J
	R2528	0 1/16W Metal Oxide	VRS-CA1JF000J
	R2529	10 1/16W Metal Oxide	VRS-CY1JF100J
	R2530	10 1/16W Metal Oxide	VRS-CY1JF100J
	R2531	8.2k 1/16W Metal Oxide	VRS-CY1JF822F
	R2532	1.0k 1/8W Metal Oxide	VRS-TQ2BD102J
	R2533	1.0k 1/8W Metal Oxide	VRS-TQ2BD102J
	R2542	0 1/16W Metal Oxide	VRS-CY1JF000J
	R2547	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2548	10k 1/16W Metal Oxide	VRS-CY1JF103J

SWITCH

	SW1601	Switch	QSW-C0049CEZZ

MISCELLANEOUS PARTS

	FB1101	Ferrite Bead	RBLN-0051TAZZ
	FB1102	Ferrite Bead	RBLN-0051TAZZ
	FB1103	Ferrite Bead	RBLN-0051TAZZ
	FB1104	Ferrite Bead	RBLN-0062TAZZ
	FB1105	Ferrite Bead	RBLN-0077TAZZ
	FB1106	Ferrite Bead	RBLN-0051TAZZ
	FB1107	Ferrite Bead	RBLN-0051TAZZ
	FB1108	Ferrite Bead	RBLN-0077TAZZ
	FB1109	Ferrite Bead	RBLN-0051TAZZ
	FB1110	Ferrite Bead	RBLN-0062TAZZ
	FB1111	Ferrite Bead	RBLN-0062TAZZ
	FB1112	Ferrite Bead	RBLN-0051TAZZ
	FB1113	Ferrite Bead	RBLN-0077TAZZ
	FB1114	Ferrite Bead	RBLN-0051TAZZ
	FB1115	Ferrite Bead	RBLN-0062TAZZ
	FB1116	Ferrite Bead	RBLN-0062TAZZ
	FB1117	Ferrite Bead	RBLN-0062TAZZ
	FB1118	Ferrite Bead	RBLN-0051TAZZ
	FB1119	Ferrite Bead	RBLN-0006TAZZ
	FB1120	Ferrite Bead	RBLN-0006TAZZ
	FB1123	Ferrite Bead	RBLN-0062TAZZ
	FB1124	Ferrite Bead	RBLN-0062TAZZ
	FB1130	Ferrite Bead	RBLN-0062TAZZ
	FB1131	Ferrite Bead	RBLN-0062TAZZ
	FB1132	Ferrite Bead	RBLN-0062TAZZ
	FB1401	Ferrite Bead	RBLN-0061TAZZ
	FB1402	Ferrite Bead	RBLN-0061TAZZ
	FB1601	Ferrite Bead	RBLN-0006TAZZ
	FB1602	Ferrite Bead	RBLN-0006TAZZ
	FB1604	Ferrite Bead	RBLN-0006TAZZ
	FB1605	Ferrite Bead	RBLN-0006TAZZ
	FB1608	Ferrite Bead	RBLN-0006TAZZ
	FB1609	Ferrite Bead	RBLN-0006TAZZ
	FB1610	Ferrite Bead	RBLN-0063TAZZ
	FB1611	Ferrite Bead	RBLN-0063TAZZ
	FB1612	Ferrite Bead	RBLN-0063TAZZ
	FB1613	Ferrite Bead	RBLN-0063TAZZ
	FB1616	Ferrite Bead	RBLN-0063TAZZ
	FB1617	Ferrite Bead	RBLN-0063TAZZ
	FB1619	Ferrite Bead	RBLN-0063TAZZ
	FB2501	Ferrite Bead	RBLN-0051TAZZ
	FB2502	Ferrite Bead	RBLN-0060TAZZ
	FB2503	Ferrite Bead	RBLN-0051TAZZ
	FB2504	Ferrite Bead	RBLN-0051TAZZ
	FB2505	Ferrite Bead	RBLN-0051TAZZ

Mark	No.	Description	Part No.
	FB2506	Ferrite Bead	RBLN-0051TAZZ
	FB2507	Ferrite Bead	RBLN-0051TAZZ
	J1101	Terminal, INPUT3 (Y.Pb.Pr), MONITOR OUTPUT (VIDEO/AUDIO)	QTANJ0657CEZZ
	J1102	Socket MONITOR OUTPUT (S-VIDEO)	QSOCD0430CEZZ
	P1301	Plug, 18-pin	QPLGN0428FJZZ
	P2501	Plug, 12-pin	QPLGN0062CEZZ
	P2502	Plug, 4-pin	QPLGN0478GEZZ
	P2503	Plug, 5-pin	QPLGN0578GEZZ
	SC1101	Socket, INPUT 1 (SCART)	QSOCZ2160CEZZ
	SC1102	Socket, INPUT 2-3 (SCART)	QSOCZ2161CEZZ
	SC1401	Socket, 30-pin	QSOCN0550FJZZ
	SC1402	Socket, 30-pin	QSOCN0490FJZZ
		Connecting Cord	QCNW-6073CEZZ
		Connecting Cord	QCNW-6079CEZZ

D SR CONNECT UNIT

TRANSISTORS

	Q6001	2SC3928AR	VS2SC3928AR-1
	Q6002	2SA1530AR	VS2SA1530AR-1
	Q6003	2SA1530AR	VS2SA1530AR-1
	Q6004	2SC3928AR	VS2SC3928AR-1
	Q6005	DTC314TK	VSDTC314TK/-1
	Q6006	DTC314TK	VSDTC314TK/-1
	Q6007	2SA1530AR	VS2SA1530AR-1
	Q6008	2SC3928AR	VS2SC3928AR-1

DIODES

	D6000	Diode	VHDMA157A//-1
	D6001	Diode	VHDMA157A//-1
	D6002	Diode	VHDMA157A//-1
	D6003	Diode	VHDMA157A//-1
	D6004	Diode	VHDMA157A//-1
	D6006	Diode	VHDMA157A//-1
	D6007	Diode	VHDMA157A//-1
	D6008	Diode	VHD1SS355//-1
	D6009	Diode	VHD1SS355//-1
	D6010	Diode	VHD1SS355//-1
	D6011	Zener Diode	RH-EX1264CEZZ
	D6012	Zener Diode	RH-EX1264CEZZ
	D6013	Diode	VHDMA157A//-1
	D6014	Diode	VHDMA157A//-1

CAPACITORS

	C6000	10 16V Electrolytic	VCEAPF1CW106M
	C6001	10 16V Electrolytic	VCEAPF1CW106M
	C6002	0.1 25V Ceramic	VCKYCY1EF104Z
	C6003	1.0 10V Ceramic	VCKYCY1AF105Z
	C6004	1.0 10V Ceramic	VCKYCY1AF105Z

RESISTORS

	R6000	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6001	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6002	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6003	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R6004	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6005	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6006	1k 1/16W Metal Oxide	VRS-CY1JF102J
	R6007	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6011	470 1/16W Metal Oxide	VRS-CY1JF471J
	R6012	470 1/16W Metal Oxide	VRS-CY1JF471J

Mark	No.	Description	Part No.
	R6013	0 1/8W Metal Oxide	VRS-TQ2BD000J
	R6014	0 1/8W Metal Oxide	VRS-TQ2BD000J
	R6015	220 1/16W Metal Oxide	VRS-CY1JF221J
	R6016	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R6017	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R6018	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R6019	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R6020	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R6021	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
	R6022	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R6023	220k 1/16W Metal Oxide	VRS-CY1JF224J
	R6024	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R6025	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R6030	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R6031	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R6032	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R6033	1.0k 1/16W Metal Oxide	VRS-CY1JF102J

MISCELLANEOUS PARTS

	FB6000	Frrite Bead	RBLN-0060TAZZ
	FB6001	Frrite Bead	RBLN-0060TAZZ
	FB6002	Frrite Bead	RBLN-0060TAZZ
	J6001	Jack, CONTROL-IN	QJAKJ0110CEZZ
	J6002	Jack, CONTROL-OUT	QJAKJ0110CEZZ
	P6000	Plug, 14-pin	QPLGN1474TAZZ
	P6001	Plug, 4-pin	QPLGN0480GEZZ
	SC6000	Socket	QSOCZ2015CEZZ
		SYSTEM CABLE (GRAY)	
		Connecting Cord	QCNW-A280WJZZ

E LED UNIT

TRANSISTORS

	Q3001	2SC3928AR	VS2SC3928AR-1
	Q3002	2SC3928AR	VS2SC3928AR-1
	Q3003	DTC144EE	VSDTC144EE/-1
	Q3004	DTC144EE	VSDTC144EE/-1
	Q3005	DTC144EE	VSDTC144EE/-1

DIODE

	D3001	Photodiode	RH-PX0421CEZZ

RESISTORS

	R3001	470 1/16W Metal Oxide	VRS-CY1JF471J
	R3002	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R3003	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3004	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R3005	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3006	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3007	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3008	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3010	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3011	0 1/16W Metal Oxide	VRS-CY1JF000J
	R3012	0 1/16W Metal Oxide	VRS-CY1JF000J

MISCELLANEOUS PARTS

	P3001	Plug, 5-pin	QPLGN0564TAZZ
		Connecting Cord	QCNW-6076CEZZ

Mark	No.	Description	Part No.

F PC I/F UNIT

INTEGRATED CIRCUITS

	IC1	HD6417709	RH-iX3270CEZZ
	IC2	PST600IM	9DK001-15061
	IC3	AT24C128N-10SC-1.8	9DK001-11020
	IC4	CXA3506R	9DK001-15079
	IC7	PQ05TZ11	9DK001-15038
	IC8	PQ20VZ11	9DK001-15071
	IC19	PST623XW	9DK001-15060
	IC25	CViC	RH-iX3434CZZZQ
	IC27	LH28F320S3NS-L11	RH-iX3430CEZZ
	IC28	MSM51V181865F-60TS-K	9DK001-11027
	IC53	74LVX86MTC	9DK001-12079
	IC310	TLC5733A	9DK001-15082
	IC316	TL431CPS	9DK001-15053
	IC319	HY57V653220BTC-7	9DK001-11024
	IC320	HY57V653220BTC-7	9DK001-11024
	IC321	HY57V653220BTC-7	9DK001-11024
	IC322	HY57V653220BTC-7	9DK001-11024
	IC327	NJM4560M	9DK001-15084
	IC328	TLC2933IPW	9DK001-15054
	IC400	74LVX86MTC	9DK001-12079
	IC402	74LVX125MTC	9DK001-12105
	IC404	74LVX125MTC	9DK001-12105
	IC405	uPD4721G	9DK001-15107
	IC408	HD74HCT244T	9DK001-12085
		or 74VHCT244AMTC	9DK001-12086
	IC410	HD74HCT244T	9DK001-12085
		or 74VHCT244AMTC	9DK001-12086
	IC411	74LCX157MTC	9DK001-12103
	IC412	PQ1R33	9DK001-15093
	IC413	SiL168	9DK001-15106
	IC414	M24C32-WMN6	9DK001-11026
	IC415	BA09FP	9DK001-15109
	IC419	TC7WH123FK	9DK001-12102
	IC420	TC7WH126FK	9DK001-12096
	IC422	HD74HCT125T	9DK001-12070
	IC423	TC7WH123FK	9DK001-12102
	IC424	NC7S08P5	9DK001-12106

TRANSISTORS

	Q12	IMB3A	9DK001-20025
	Q13	2SC2412KQ	9DK001-20011
	Q15	2SA1037AKQ	9DK001-20012
	Q102	NDC7002N	9DK001-20036
	Q103	2SC2412KQ	9DK001-20011
	Q104	2SC2412KQ	9DK001-20011
	Q105	2SC2412KQ	9DK001-20011
	Q107	2SC2412KQ	9DK001-20011
	Q108	2SC2412KQ	9DK001-20011
	Q109	2SC2412KQ	9DK001-20011
	Q110	2SC2412KQ	9DK001-20011
	Q111	2SA1037AKQ	9DK001-20012
	Q112	2SA1037AKQ	9DK001-20012
	Q113	2SA1037AKQ	9DK001-20012
	Q114	2SC2412KQ	9DK001-20011
	Q117	2SC2412KQ	9DK001-20011
	Q118	2SC2412KQ	9DK001-20011
	Q119	2SC2412KQ	9DK001-20011
	Q120	NDC7002N	9DK001-20036

PDP-R03E

Mark	No.	Description	Part No.
DIODES			
	D9	Diode 1SS187	9DK001-30018
	D20	Diode 1SS187	9DK001-30018
	D50	Diode 1SS193	9DK001-30001
	D51	Diode 1SS193	9DK001-30001
	D52	Diode 1SS193	9DK001-30001
	D53	Diode 1SS193	9DK001-30001
	D54	Diode MA3120WA	9DK001-30022
	D55	Diode MA3120WA	9DK001-30022
	D56	Diode MA3120WA	9DK001-30022
	D57	Diode MA3120WA	9DK001-30022
	D70	Diode 1SS355	9DK001-30020
	D71	Diode 1SS355	9DK001-30020
	D72	Diode 1SS355	9DK001-30020
	D73	Diode 1SS400	9DK001-30021
	D75	Diode 1SS187	9DK001-30018
	D76	Diode 1SS187	9DK001-30018
	D77	Diode 1SS400	9DK001-30021
PACKAGED CIRCUITS			
	X1	Crystal, 6MHz	9DK001-80012
	X3	Crystal FXO-31FL (1.8432MHz)	9DK001-80011
	X4	Crystal FXO-31FL (25MHz)	9DK001-80018
	X5	Crystal DS07515V (79.794MHz)	9DK001-80029
	X6	Crystal, 25.175MHz	9DK001-80031
FILTERS AND COILS			
	FL5	Fiter BMK351	9DK001-81020
	FL6	Fiter BMK351	9DK001-81020
	FL10	Fiter BMK351	9DK001-81020
	FL20	Fiter BMK351	9DK001-81020
	FL21	Fiter BMK351	9DK001-81020
	FL22	Fiter BMK351	9DK001-81020
	FL23	Fiter BMK351	9DK001-81020
	FL29	Fiter BMK351	9DK001-81020
	FL30	Fiter BMK351	9DK001-81020
	FL31	Fiter BMK351	9DK001-81020
	FL32	Fiter BMK351	9DK001-81020
	FL94	Fiter BMK351	9DK001-81020
	FL95	Fiter BMK351	9DK001-81020
	FL96	Fiter BMK351	9DK001-81020
	FL97	Fiter BMK351	9DK001-81020
	FL200	Fiter BMK351	9DK001-81020
	FL201	Fiter BMK351	9DK001-81020
	FL204	Fiter BMK351	9DK001-81020
	L1	Inductor NLC322522T-3R3M	9DK001-81052
	L2	Inductor NLC322522T-3R3M	9DK001-81052
	L3	Inductor NLC322522T-3R3M	9DK001-81052
	L4	Inductor NLC322522T-3R3M	9DK001-81052
	L22	Inductor NLC322522T-3R3M	9DK001-81052
	L100	Inductor NLC322522T-3R3M	9DK001-81052
	L101	Inductor NLC322522T-3R3M	9DK001-81052
CAPACITORS			
	C1	0.1 25V Ceramic	9DK001-42094
	C2	0.1 25V Ceramic	9DK001-42094
	C6	0.01 50V Ceramic	9DK001-42096
	C7	0.01 50V Ceramic	9DK001-42096
	C8	0.01 50V Ceramic	9DK001-42096
	C9	0.01 50V Ceramic	9DK001-42096
	C10	10 10V Ceramic or 10 25V Ceramic	9DK001-42131 9DK001-42118
	C12	15p 50V Ceramic	9DK001-42103
	C13	15p 50V Ceramic	9DK001-42103
	C14	0.01 50V Ceramic	9DK001-42096
	C15	10 10V Ceramic or 10 25V Ceramic	9DK001-42131 9DK001-42118
	C17	0.01 50V Ceramic	9DK001-42096
	C18	0.01 50V Ceramic	9DK001-42096
	C19	470p 50V Ceramic	9DK001-42104
	C20	470p 50V Ceramic	9DK001-42104
	C21	0.01 50V Ceramic	9DK001-42096
	C22	0.01 50V Ceramic	9DK001-42096
	C23	0.01 50V Ceramic	9DK001-42096
	C24	10 16V Electrolytic	9DK001-40077
	C25	0.01 50V Ceramic	9DK001-42096
	C26	0.01 50V Ceramic	9DK001-42096
	C27	0.01 50V Ceramic	9DK001-42096
	C28	0.01 50V Ceramic	9DK001-42096
	C29	0.01 50V Ceramic	9DK001-42096
	C30	0.047 50V Ceramic	9DK001-42105
	C31	0.1 25V Ceramic	9DK001-42094
	C32	0.1 25V Ceramic	9DK001-42094
	C33	0.1 25V Ceramic	9DK001-42094
	C34	0.01 50V Ceramic	9DK001-42096
	C35	0.01 50V Ceramic	9DK001-42096
	C36	0.01 50V Ceramic	9DK001-42096
	C37	0.01 50V Ceramic	9DK001-42096
	C38	0.01 50V Ceramic	9DK001-42096
	C42	0.01 50V Ceramic	9DK001-42096
	C43	0.01 50V Ceramic	9DK001-42096
	C51	0.01 50V Ceramic	9DK001-42096
	C52	0.01 50V Ceramic	9DK001-42096
	C53	0.01 50V Ceramic	9DK001-42096
	C62	0.1 25V Ceramic	9DK001-42094
	C70	0.1 25V Ceramic	9DK001-42094
	C78	0.1 25V Ceramic	9DK001-42094
	C79	47 6.3V Electrolytic	9DK001-40089
	C80	47 16V Electrolytic	9DK001-40079
	C81	0.01 50V Ceramic	9DK001-42096
	C82	0.01 50V Ceramic	9DK001-42096
	C83	0.01 50V Ceramic	9DK001-42096
	C84	47 6.3V Electrolytic	9DK001-40089
	C96	47 6.3V Electrolytic	9DK001-40089
	C110	0.1 25V Ceramic	9DK001-42094
	C111	0.1 25V Ceramic	9DK001-42094
	C112	0.1 25V Ceramic	9DK001-42094
	C113	1 10V Ceramic	9DK001-42111
	C114	0.1 25V Ceramic	9DK001-42094
	C115	0.1 25V Ceramic	9DK001-42094
	C116	0.1 25V Ceramic	9DK001-42094
	C117	0.1 25V Ceramic	9DK001-42094
	C118	0.1 25V Ceramic	9DK001-42094
	C119	0.1 25V Ceramic	9DK001-42094
	C120	0.1 25V Ceramic	9DK001-42094
	C121	0.1 25V Ceramic	9DK001-42094
	C122	1 10V Ceramic	9DK001-42111
	C123	0.1 25V Ceramic	9DK001-42094
	C124	0.1 25V Ceramic	9DK001-42094

Mark	No.	Description	Part No.
	C125	0.1 25V Ceramic	9DK001-42094
	C126	0.1 25V Ceramic	9DK001-42094
	C127	100p 50V Ceramic	9DK001-42099
	C128	0.33 16V Film	9DK001-42149
	C130	100p 50V Ceramic	9DK001-42099
	C131	0.1 25V Ceramic	9DK001-42094
	C132	0.1 25V Ceramic	9DK001-42094
	C133	0.1 25V Ceramic	9DK001-42094
	C134	0.1 25V Ceramic	9DK001-42094
	C135	0.1 25V Ceramic	9DK001-42094
	C136	0.1 25V Ceramic	9DK001-42094
	C137	0.1 25V Ceramic	9DK001-42094
	C138	0.1 25V Ceramic	9DK001-42094
	C143	0.01 50V Ceramic	9DK001-42096
	C144	47 6.3V Electrolytic	9DK001-40089
	C145	0.01 50V Ceramic	9DK001-42096
	C146	47 6.3V Electrolytic	9DK001-40089
	C147	0.01 50V Ceramic	9DK001-42096
	C148	47 6.3V Electrolytic	9DK001-40089
	C149	0.01 50V Ceramic	9DK001-42096
	C350	0.01 50V Ceramic	9DK001-42096
	C361	47 6.3V Electrolytic	9DK001-40089
	C366	100 6.3V Electrolytic	9DK001-40080
	C367	100 4V Electrolytic	9DK001-40091
	C531	47 6.3V Electrolytic	9DK001-40089
	C532	0.01 50V Ceramic	9DK001-42096
	C537	10 16V Electrolytic	9DK001-40077
	C538	0.1 25V Ceramic	9DK001-42094
	C542	10 16V Electrolytic	9DK001-40077
	C543	0.1 25V Ceramic	9DK001-42094
	C544	2200p 50V Ceramic	9DK001-42102
	C545	2200p 50V Ceramic	9DK001-42102
	C546	2200p 50V Ceramic	9DK001-42102
	C550	10 16V Electrolytic	9DK001-40077
	C551	0.1 25V Ceramic	9DK001-42094
	C552	0.1 25V Ceramic	9DK001-42094
	C553	0.1 25V Ceramic	9DK001-42094
	C554	10 16V Electrolytic	9DK001-40077
	C555	0.1 25V Ceramic	9DK001-42094
	C556	0.1 25V Ceramic	9DK001-42094
	C557	0.1 25V Ceramic	9DK001-42094
	C558	0.1 25V Ceramic	9DK001-42094
	C559	10 10V Ceramic	9DK001-42131
		or 10 25V Ceramic	9DK001-42118
	C562	0.1 25V Ceramic	9DK001-42094
	C563	0.1 25V Ceramic	9DK001-42094
	C564	33 6.3V OS	9DK001-40106
	C565	0.1 25V Ceramic	9DK001-42094
	C566	330p 50V Ceramic	9DK001-42123
	C573	47 6.3V Electrolytic	9DK001-40089
	C574	47 6.3V Electrolytic	9DK001-40089
	C575	0.01 50V Ceramic	9DK001-42096
	C576	0.01 50V Ceramic	9DK001-42096
	C577	0.01 50V Ceramic	9DK001-42096
	C578	0.01 50V Ceramic	9DK001-42096
	C579	0.01 50V Ceramic	9DK001-42096
	C580	0.01 50V Ceramic	9DK001-42096
	C581	0.01 50V Ceramic	9DK001-42096
	C582	0.01 50V Ceramic	9DK001-42096
	C583	0.01 50V Ceramic	9DK001-42096
	C584	0.01 50V Ceramic	9DK001-42096
	C585	0.01 50V Ceramic	9DK001-42096
	C586	0.01 50V Ceramic	9DK001-42096
	C587	47 6.3V Electrolytic	9DK001-40089
	C588	47 6.3V Electrolytic	9DK001-40089
	C589	0.01 50V Ceramic	9DK001-42096
	C590	0.01 50V Ceramic	9DK001-42096
	C591	0.01 50V Ceramic	9DK001-42096
	C592	0.01 50V Ceramic	9DK001-42096
	C593	0.01 50V Ceramic	9DK001-42096
	C594	0.01 50V Ceramic	9DK001-42096
	C595	0.01 50V Ceramic	9DK001-42096
	C596	0.01 50V Ceramic	9DK001-42096
	C597	0.01 50V Ceramic	9DK001-42096
	C598	0.01 50V Ceramic	9DK001-42096
	C599	0.01 50V Ceramic	9DK001-42096
	C600	0.01 50V Ceramic	9DK001-42096
	C697	0.01 50V Ceramic	9DK001-42096
	C698	0.47 16V Ceramic	9DK001-42152
	C700	0.47 16V Ceramic	9DK001-42152
	C702	0.47 16V Ceramic	9DK001-42152
	C704	1 10V Ceramic	9DK001-42111
	C705	0.1 16V Film	9DK001-42145
	C706	0.01 50V Ceramic	9DK001-42096
	C715	0.01 50V Ceramic	9DK001-42096
	C716	0.01 50V Ceramic	9DK001-42096
	C717	0.01 50V Ceramic	9DK001-42096
	C741	47 6.3V Electrolytic	9DK001-40089
	C757	4.7 10V Ceramic	9DK001-42113
	C759	0.01 50V Ceramic	9DK001-42096
	C762	0.1 25V Ceramic	9DK001-42094
	C763	0.1 25V Ceramic	9DK001-42094
	C764	0.1 25V Ceramic	9DK001-42094
	C766	0.1 25V Ceramic	9DK001-42094
	C767	6.8 10V OS	9DK001-40104
	C768	1 10V Ceramic	9DK001-42111
	C769	4.7 10V Ceramic	9DK001-42113
	C776	6.8 10V OS	9DK001-40104
	C777	0.1 25V Ceramic	9DK001-42094
	C800	0.1 25V Ceramic	9DK001-42094
	C802	0.1 25V Ceramic	9DK001-42094
	C803	0.1 25V Ceramic	9DK001-42094
	C804	2.2 50V Electrolytic	9DK001-40103
	C805	2.2 50V Electrolytic	9DK001-40103
	C806	2.2 50V Electrolytic	9DK001-40103
	C807	2.2 50V Electrolytic	9DK001-40103
	C808	2.2 50V Electrolytic	9DK001-40103
	C813	0.1 25V Ceramic	9DK001-42094
	C814	0.1 25V Ceramic	9DK001-42094
	C815	0.1 25V Ceramic	9DK001-42094
	C816	0.1 25V Ceramic	9DK001-42094
	C817	0.1 25V Ceramic	9DK001-42094
	C818	0.1 25V Ceramic	9DK001-42094
	C819	0.1 25V Ceramic	9DK001-42094
	C820	0.1 25V Ceramic	9DK001-42094
	C821	0.1 25V Ceramic	9DK001-42094
	C822	0.1 25V Ceramic	9DK001-42094
	C823	0.1 25V Ceramic	9DK001-42094
	C824	0.1 25V Ceramic	9DK001-42094
	C825	0.1 25V Ceramic	9DK001-42094

Mark	No.	Description	Part No.
	C826	0.1 25V Ceramic	9DK001-42094
	C827	0.1 25V Ceramic	9DK001-42094
	C828	0.1 25V Ceramic	9DK001-42094
	C829	0.1 25V Ceramic	9DK001-42094
	C830	0.1 25V Ceramic	9DK001-42094
	C831	0.1 25V Ceramic	9DK001-42094
	C832	0.1 25V Ceramic	9DK001-42094
	C833	0.1 25V Ceramic	9DK001-42094
	C834	0.1 25V Ceramic	9DK001-42094
	C835	0.1 25V Ceramic	9DK001-42094
	C836	0.1 25V Ceramic	9DK001-42094
	C837	0.1 25V Ceramic	9DK001-42094
	C838	0.1 25V Ceramic	9DK001-42094
	C839	0.1 25V Ceramic	9DK001-42094
	C840	0.1 25V Ceramic	9DK001-42094
	C841	0.1 25V Ceramic	9DK001-42094
	C842	0.1 25V Ceramic	9DK001-42094
	C843	0.1 25V Ceramic	9DK001-42094
	C844	0.1 25V Ceramic	9DK001-42094
	C845	0.1 25V Ceramic	9DK001-42094
	C846	0.1 25V Ceramic	9DK001-42094
	C847	100 6.3V Electrolytic	9DK001-40080
	C848	0.1 25V Ceramic	9DK001-42094
	C849	100 6.3V Electrolytic	9DK001-40080
	C850	220 4V Electrolytic	9DK001-40092
	C851	100 6.3V Electrolytic	9DK001-40080
	C852	47 6.3V Electrolytic	9DK001-40089
	C853	0.01 50V Ceramic	9DK001-42096
	C854	47 16V Electrolytic	9DK001-40079
	C855	82p 50V Ceramic	9DK001-42133
	C856	0.1 25V Ceramic	9DK001-42094
	C857	10 16V Electrolytic	9DK001-40077
	C858	82p 50V Ceramic	9DK001-42133
	C859	0.1 25V Ceramic	9DK001-42094
	C860	10 16V Electrolytic	9DK001-40077
	C863	82p 50V Ceramic	9DK001-42133
	C864	82p 50V Ceramic	9DK001-42133
	C865	82p 50V Ceramic	9DK001-42133
	C867	10 16V Electrolytic	9DK001-40077
	C868	0.1 25V Ceramic	9DK001-42094
	C869	0.1 25V Ceramic	9DK001-42094
	C870	82p 50V Ceramic	9DK001-42133
	C872	0.1 25V Ceramic	9DK001-42094
	C874	82p 50V Ceramic	9DK001-42133
	C875	82p 50V Ceramic	9DK001-42133
	C876	0.1 25V Ceramic	9DK001-42094
	C878	0.1 25V Ceramic	9DK001-42094
	C879	82p 50V Ceramic	9DK001-42133
	C880	0.47 16V Ceramic	9DK001-42152
	C881	0.1 25V Ceramic	9DK001-42094
	C882	22 16V Electrolytic	9DK001-40078
	C883	0.1 25V Ceramic	9DK001-42094
	C884	0.1 25V Ceramic	9DK001-42094
	C885	0.1 25V Ceramic	9DK001-42094
	C886	0.47 16V Ceramic	9DK001-42152
	C887	120p 50V Ceramic	9DK001-42151
	C888	120p 50V Ceramic	9DK001-42151
	C889	120p 50V Ceramic	9DK001-42151
	C890	10 16V Electrolytic	9DK001-40077
	C891	10 16V Electrolytic	9DK001-40077

Mark	No.	Description	Part No.
	C894	0.1 25V Ceramic	9DK001-42094
	C895	0.1 25V Ceramic	9DK001-42094
	C896	0.1 25V Ceramic	9DK001-42094
	C897	0.1 25V Ceramic	9DK001-42094
	C898	100p 50V Ceramic	9DK001-42099
	C899	100p 50V Ceramic	9DK001-42099
	C900	100p 50V Ceramic	9DK001-42099
	C904	0.1 25V Ceramic	9DK001-42094
	C905	0.1 25V Ceramic	9DK001-42094
	C907	0.1 25V Ceramic	9DK001-42094
	C908	0.01 50V Ceramic	9DK001-42096
	C913	0.1 25V Ceramic	9DK001-42094
	C916	0.1 25V Ceramic	9DK001-42094
	C917	0.01 50V Ceramic	9DK001-42096
	C918	0.01 50V Ceramic	9DK001-42096

RESISTORS

	R10	10k 1/16W Resistor Array	9DK001-51030
	R11	10k 1/16W Resistor Array	9DK001-51030
	R16	1.69k 1.16W Chip1608	9DK001-50198
	R17	33k 1/16W Chip1608	9DK001-50210
	R18	2.15k 1/16W Chip1608	9DK001-50199
	R19	10k 1/16W Resistor Array	9DK001-51030
	R21	0 1/16W Chip1608	9DK001-50149
	R22	10k 1/16W Chip1608	9DK001-50185
	R27	27k 1/16W Chip1608	9DK001-50209
	R29	10k 1/16W Resistor Array	9DK001-51030
	R33	10k 1/16W Resistor Array	9DK001-51030
	R34	10k 1/16W Resistor Array	9DK001-51030
	R35	10k 1/16W Resistor Array	9DK001-51030
	R36	10k 1/16W Resistor Array	9DK001-51030
	R40	68 1/16W Chip1608	9DK001-50163
	R43	10k 1/16W Resistor Array	9DK001-51030
	R44	10k 1/16W Resistor Array	9DK001-51030
	R50	10k 1/16W Resistor Array	9DK001-51030
	R51	10k 1/16W Resistor Array	9DK001-51030
	R57	10k 1/16W Resistor Array	9DK001-51030
	R58	10k 1/16W Resistor Array	9DK001-51030
	R62	10 1/16W Resistor Array	9DK001-51029
	R65	10k 1/16W Resistor Array	9DK001-51030
	R75	0 1/16W Chip1608	9DK001-50149
	R80	270 1/10W Chip2125	9DK001-50103
	R83	0 1/16W Chip1608	9DK001-50149
	R88	270 1/10W Chip2125	9DK001-50103
	R91	0 1/16W Chip1608	9DK001-50149
	R96	270 1/10W Chip2125	9DK001-50103
	R121	47 1/4W Chip3216	9DK001-50065
	R122	47 1/4W Chip3216	9DK001-50065
	R123	1.6k 1/16W Chip1608	9DK001-50256
	R124	1.0k 1/16W Chip1608	9DK001-50237
	R128	10 1/16W Chip1608	9DK001-50150
	R132	3.3k 1/16W Chip1608	9DK001-50156
	R133	3k 1/16W Chip1608	9DK001-50155
	R138	0 1/16W Chip1608	9DK001-50149
	R140	0 1/16W Chip1608	9DK001-50149
	R289	4.7k 1/16W Chip1608	9DK001-50183
	R340	10k 1/16W Chip1608	9DK001-50185
	R650	10k 1/16W Chip1608	9DK001-50185
	R651	6.8k 1/16W Resistor Array	9DK001-51037
	R652	10k 1/16W Resistor Array	9DK001-51030
	R654	150 1/16W Chip1608	9DK001-50204
	R656	4.7k 1/16W Chip1608	9DK001-50183

Mark	No.	Description	Part No.
	R664	15k 1/16W Chip1608	9DK001-50259
	R665	15k 1/16W Chip1608	9DK001-50259
	R671	15k 1/16W Chip1608	9DK001-50259
	R677	470 1/16W Chip1608	9DK001-50173
	R678	1.2k 1/16W Chip1608	9DK001-50254
	R680	3k 1/16W Chip1608	9DK001-50155
	R681	3k 1/16W Chip1608	9DK001-50155
	R682	1.2k 1/16W Chip1608	9DK001-50254
	R687	470 1/16W Chip1608	9DK001-50173
	R688	15 1/16W Chip1608	9DK001-50201
	R689	470 1/16W Chip1608	9DK001-50173
	R690	1.8k 1/16W Chip1608	9DK001-50205
	R691	1.8k 1/16W Chip1608	9DK001-50205
	R692	22 1/16W Chip1608	9DK001-50159
	R693	22 1/16W Chip1608	9DK001-50159
	R694	22 1/16W Chip1608	9DK001-50159
	R695	22 1/16W Chip1608	9DK001-50159
	R696	10k 1/16W Chip1608	9DK001-50185
	R697	10k 1/16W Chip1608	9DK001-50185
	R698	10k 1/16W Chip1608	9DK001-50185
	R699	10k 1/16W Chip1608	9DK001-50185
	R702	10k 1/16W Resistor Array	9DK001-51030
	R708	10k 1/16W Resistor Array	9DK001-51030
	R730	680 1/16W Chip1608	9DK001-50175
	R731	620 1/16W Chip1608	9DK001-50271
	R733	10k 1/16W Chip1608	9DK001-50185
	R734	10k 1/16W Chip1608	9DK001-50185
	R735	10k 1/16W Chip1608	9DK001-50185
	R736	10k 1/16W Chip1608	9DK001-50185
	R737	10k 1/16W Chip1608	9DK001-50185
	R738	10k 1/16W Chip1608	9DK001-50185
	R739	10k 1/16W Chip1608	9DK001-50185
	R740	10k 1/16W Chip1608	9DK001-50185
	R742	0 1/16W Chip1608	9DK001-50149
	R743	1.8k 1/16W Chip1608	9DK001-50205
	R745	0 1/16W Chip1608	9DK001-50149
	R747	0 1/16W Chip1608	9DK001-50149
	R749	0 1/16W Chip1608	9DK001-50149
	R757	0 1/16W Chip1608	9DK001-50149
	R758	0 1/16W Chip1608	9DK001-50149
	R758	10k 1/16W Chip1608	9DK001-50185
	R759	1k 1/16W Chip1608	9DK001-50177
	R760	1k 1/16W Chip1608	9DK001-50177
	R763	0 1/16W Chip1608	9DK001-50149
	R764	0 1/16W Chip1608	9DK001-50149
	R765	0 1/16W Chip1608	9DK001-50149
	R867	510 1/16W Chip1608	9DK001-50217
	R868	510 1/16W Chip1608	9DK001-50217
	R869	510 1/16W Chip1608	9DK001-50217
	R876	0 1/16W Chip1608	9DK001-50149
	R877	10k 1/16W Chip1608	9DK001-50185
	R879	0 1/16W Chip1608	9DK001-50149
	R881	0 1/16W Chip1608	9DK001-50149
	R883	0 1/16W Chip1608	9DK001-50149
	R885	0 1/16W Chip1608	9DK001-50149
	R887	0 1/16W Chip1608	9DK001-50149
	R901	0 1/4W Chip3216	9DK001-50113
	R911	10 1/10W Chip2125	9DK001-50121
	R912	10 1/10W Chip2125	9DK001-50121
	R920	100 1/16W Chip1608	9DK001-50165
	R921	100 1/16W Chip1608	9DK001-50165
	R922	10k 1/16W Chip1608	9DK001-50185
	R924	4.7k 1/16W Chip1608	9DK001-50183
	R925	4.7k 1/16W Chip1608	9DK001-50183
	R926	0 1/16W Chip1608	9DK001-50149
	R927	100 1/16W Chip1608	9DK001-50165
	R928	100 1/16W Chip1608	9DK001-50165
	R929	100 1/16W Chip1608	9DK001-50165
	R930	100 1/16W Chip1608	9DK001-50165
	R934	68 1/16W Resistor Array	9DK001-51040
	R936	68 1/16W Resistor Array	9DK001-51040
	R937	68 1/16W Resistor Array	9DK001-51040
	R939	68 1/16W Resistor Array	9DK001-51040
	R940	68 1/16W Resistor Array	9DK001-51040
	R941	68 1/16W Resistor Array	9DK001-51040
	R947	56 1/16W Resistor Array	9DK001-51039
	R951	6.8k 1/16W Resistor Array	9DK001-51037
	R959	68 1/16W Resistor Array	9DK001-51040
	R960	68 1/16W Resistor Array	9DK001-51040
	R961	68 1/16W Resistor Array	9DK001-51040
	R962	68 1/16W Resistor Array	9DK001-51040
	R963	68 1/16W Resistor Array	9DK001-51040
	R964	68 1/16W Resistor Array	9DK001-51040
	R965	68 1/16W Resistor Array	9DK001-51040
	R966	68 1/16W Resistor Array	9DK001-51040
	R967	68 1/16W Resistor Array	9DK001-51040
	R968	68 1/16W Resistor Array	9DK001-51040
	R969	68 1/16W Resistor Array	9DK001-51040
	R970	68 1/16W Resistor Array	9DK001-51040
	R971	33 1/16W Resistor Array	9DK001-51042
	R972	33 1/16W Resistor Array	9DK001-51042
	R973	33 1/16W Resistor Array	9DK001-51042
	R974	33 1/16W Resistor Array	9DK001-51042
	R975	33 1/16W Resistor Array	9DK001-51042
	R976	33 1/16W Resistor Array	9DK001-51042
	R977	10k 1/16W Chip1608	9DK001-50185
	R978	68 1/16W Chip1608	9DK001-50163
	R979	0 1/16W Chip1608	9DK001-50149
	R980	0 1/16W Chip1608	9DK001-50149
	R993	0 1/16W Chip1608	9DK001-50149
	R998	0 1/16W Chip1608	9DK001-50149
	R999	510 1/16W Chip1608	9DK001-50217
	R1000	4.7k 1/16W Chip1608	9DK001-50183
	R1001	4.7k 1/16W Chip1608	9DK001-50183
	R1002	100 1/16W Chip1608	9DK001-50165
	R1003	100 1/16W Chip1608	9DK001-50165
	R1004	1k 1/16W Chip1608	9DK001-50177
	R1005	1k 1/16W Chip1608	9DK001-50177
	R1006	2.2k 1/16W Chip1608	9DK001-50179
	R1007	1k 1/16W Chip1608	9DK001-50177
	R1008	1k 1/16W Chip1608	9DK001-50177
	R1009	2.2k 1/16W Chip1608	9DK001-50179
	R1011	33k 1/16W Chip1608	9DK001-50210
	R1012	1k 1/16W Chip1608	9DK001-50177
	R1013	47 1/16W Chip1608	9DK001-50161
	R1015	47 1/16W Chip1608	9DK001-50161
	R1017	47 1/16W Chip1608	9DK001-50161
	R1019	2.2k 1/16W Chip1608	9DK001-50179
	R1022	3.3k 1/16W Chip1608	9DK001-50181
	R1023	3.3k 1/16W Chip1608	9DK001-50181

Mark	No.	Description	Part No.
	R1024	3.3k 1/16W Chip1608	9DK001-50181
	R1025	0 1/16W Chip1608	9DK001-50149
	R1026	220 1/16W Chip1608	9DK001-50169
	R1027	220 1/16W Chip1608	9DK001-50169
	R1028	220 1/16W Chip1608	9DK001-50169
	R1029	1M 1/16W Chip1608	9DK001-50190
	R1030	1k 1/16W Chip1608	9DK001-50177
	R1031	22k 1/16W Chip1608	9DK001-50186
	R1032	100k 1/16W Chip1608	9DK001-50212
	R1033	1k 1/16W Chip1608	9DK001-50177
	R1034	1k 1/16W Chip1608	9DK001-50177
	R1035	100k 1/16W Chip1608	9DK001-50212
	R1036	1k 1/16W Chip1608	9DK001-50177
	R1037	22k 1/16W Chip1608	9DK001-50186
	R1038	100k 1/16W Chip1608	9DK001-50212
	R1042	1k 1/16W Chip1608	9DK001-50177
	R1043	1k 1/16W Chip1608	9DK001-50177
	R1044	1k 1/16W Chip1608	9DK001-50177
	R1045	560 1/16W Chip1608	9DK001-50174
	R1048	47 1/16W Chip1608	9DK001-50161
	R1049	47 1/16W Chip1608	9DK001-50161
	R1050	47 1/16W Chip1608	9DK001-50161
	R1051	4.7k 1/16W Chip1608	9DK001-50183
	R1052	4.7k 1/16W Chip1608	9DK001-50183
	R1053	4.7k 1/16W Chip1608	9DK001-50183
	R1054	4.7k 1/16W Chip1608	9DK001-50183
	R1055	4.7k 1/16W Chip1608	9DK001-50183
	R1056	4.7k 1/16W Chip1608	9DK001-50183
	R1058	4.7k 1/16W Chip1608	9DK001-50183
	R1059	4.7k 1/16W Chip1608	9DK001-50183
	R1060	4.7k 1/16W Chip1608	9DK001-50183
	R1061	4.7k 1/16W Chip1608	9DK001-50183
	R1062	4.7k 1/16W Chip1608	9DK001-50183
	R1077	6.8k 1/16W Chip1608	9DK001-50207
	R1079	56 1/16W Resistor Array	9DK001-51039
	R1082	22 1/16W Chip1608	9DK001-50159
	R1083	1k 1/16W Chip1608	9DK001-50177
	R1084	10k 1/16W Chip1608	9DK001-50185
	R1085	6.8k 1/16W Chip1608	9DK001-50207
	R1089	100 1/16W Chip1608	9DK001-50165
	R1099	0 1/16W Chip1608	9DK001-50149
	R1101	56 1/16W Resistor Array	9DK001-51039
	R1102	56 1/16W Resistor Array	9DK001-51039
	R1104	100 1/16W Chip1608	9DK001-50165
	R1105	10k 1/16W Chip1608	9DK001-50185
	R1107	1k 1/16W Chip1608	9DK001-50177
	R1108	16k 1/16W Chip1608	9DK001-50214
	R1110	4.7k 1/16W Chip1608	9DK001-50183
	R1120	0 1/16W Chip1608	9DK001-50149
	R1121	0 1/16W Chip1608	9DK001-50149
	R1122	0 1/16W Chip1608	9DK001-50149
	R1123	0 1/16W Chip1608	9DK001-50149
	R1124	0 1/16W Chip1608	9DK001-50149
	R1125	0 1/16W Chip1608	9DK001-50149
	R1126	10 1/4W Chip3216	9DK001-50088
	R1127	10k 1/16W Chip1608	9DK001-50185
	R1128	47 1/16W Chip1608	9DK001-50161
	FB15	0 1/10W Chip2125	9DK001-50110
	FB18	0 1/10W Chip2125	9DK001-50110
	FB19	0 1/10W Chip2125	9DK001-50110
	FL1	0 1/10W Chip2125	9DK001-50110
	FL98	33 1/10W Chip2125	9DK001-50080
	FL99	0 1/10W Chip2125	9DK001-50110
	FL102	0 1/10W Chip2125	9DK001-50110
	FL110	0 1/10W Chip2125	9DK001-50110

SWITCH

	S1	Switch Slide	9DK001-70012

MISCELLANEOUS PARTS

	FB50	Ferrite Bead Chip2125	9DK001-81060
	FB51	Ferrite Bead Chip2125	9DK001-81060
	FB52	Ferrite Bead Chip2125	9DK001-81060
	FB53	Ferrite Bead Chip2125	9DK001-81060
	CN1	Connector, 15-pin	9DK001-60074
	CN3	Connector, 29-pin	9DK001-60053
	CN5	Connector, JEY-9P-1A3F	9DK001-60066
	CN6	Connector, 30-pin	9DK001-60067
	CN7	Connector, 50-pin	9DK001-60058
	CN8	Connector, 12-pin	9DK001-60070
	CN9	Connector, 13-pin	9DK001-60071

G POWER UNIT

INTEGRATED CIRCUITS

	IC701	NJM2375AD	VHiNJM2375AD1
	IC702	TNY264P	VHiTNY264P/-1
	IC703	TA76431	VHiTA76431S15

TRANSISTORS

	Q701	2SK2662	VS2SK2662//-1
	Q702	2SC1741AS	VS2SC1741AS-1
	Q703	2SK2700	VS2SK2700//-1
	Q704	2SC1741AS	VS2SC1741AS-1
	Q705	DTD113ZS	VSDTD113ZS/-1
	Q706	DTC124ESA	VSDTC124ESA-1
	Q707	DTA124XSA	VSDTA124XSA-1
	Q708	DTC124ESA	VSDTC124ESA-1
	Q709	DTA114ESA	VSDTA114ESA-1

DIODES

	D701	Diode	VHDD3SB60//-1
	D702	Diode	VHD5JL2CZ47-1
	D703	Diode	VHD1SS270ATE1
	D704	Diode	VHD1SS270ATE1
	D705	Zener Diode	VHEHZS18-3/-1
	D706	Diode	VHD1SS270ATE1
	D707	Diode	VHD05NH45//-1
	D708	Diode	VHD05NH45//-1
	D709	Diode	VHDAG01////-1
	D710	Diode	VHDFMB26L//-1
	D711	Zener Diode	VHEHZS12A3/-1
	D713	Diode	VHDRK39LFC3-1
	D714	1SS270A	VHD1SS270ATE1
	D715	Zener Diode	VHEHZS3CLL/-1
	D716	Zener Diode	VHEHZS6C2//-1
	D717	Diode	VHD1SS270ATE1

PACKAGED CIRCUITS

⚠	PC701	Photo Coupler PC123FY	VHPPC123FY2-1
⚠	PC702	Photo Coupler PC123FY	VHPPC123FY2-1
⚠	PC703	Photo Coupler PC123FY	VHPPC123FY2-1
⚠	PC704	Photo Coupler PC123FY	VHPPC123FY2-1

Mark	No.	Description	Part No.
FILTERS AND COILS			
	L703	Coil	RCiLC1239SNEZ
	L704	Coil	RCiLC1249SNEZ
	L705	Coil	RCiLC1250SNEZ
	FB702	Ferrite Bead	RCORF1011SNEZ
	FB701	Ferrite Bead	RCORF1011SNEZ
TRANSFORMERS			
⚠	T701	Transformer	RTRNP1219SNEZ
⚠	T702	Transformer	RTRNP1220SNEZ
	TH701	Power Thermistor	VHS8D2-10LD-1
	TH702	Power Thermistor	VHS8D2-10LD-1
CAPACITORS			
⚠	C704	0.01 275V Film	RC-M2E103RESC
⚠	C705	1000p 250V Ceramic	RCDE0910R102S
	C706	0.82 400V Film	RC-M2G824MDSC
	C707	220p 2kV Ceramic	RCDE0707R221S
	C708	56 450V Electrolytic	RC-E2W566KMMZ
	C709	0.01 50V Ceramic	RCDD350BC103K
	C710	100 35V Electrolytic	RC-E1V107SNPW
	C711	0.47 12V Ceramic	RC-DD312F474Z
	C713	220p 2kV Ceramic	RCDE0707R221S
	C714	220p 2kV Ceramic	RCDE0707R221S
	C715	0.1 16V Ceramic	RCDD407SR104K
	C716	0.1 16V Ceramic	RCDD407SR104K
	C717	4700p 50V Ceramic	RCDD107-B472K
	C718	0.01 50V Ceramic	RCDD350BC103K
	C719	22 400V Electrolytic	RC-E2G226KMXZ
	C720	100p 2kV Ceramic	RCDE0705SL101
	C721	0.1 16V Ceramic	RCDD407SR104K
	C722	22 50V Electrolytic	RC-E1H226SNPJ
	C723	470 25V Electrolytic	RC-E1E477SNPW
	C724	470 25V Electrolytic	RC-E1E477SNPW
	C725	470 25V Electrolytic	RC-E1E477SNPW
	C726	0.1 16V Ceramic	RCDD407SR104K
	C727	470 25V Electrolytic	RC-E1E477SNPW
	C728	220 10V Electrolytic	RC-E1A227SNPW
	C729	220 10V Electrolytic	RC-E1A227SNPW
	C730	0.1 16V Ceramic	RCDD407SR104K
	C731	0.047 50V Ceramic	RCDD407SR473K
	C732	1 50V Electrolytic	RC-E1H105SNPR
	C733	2200p 50V Ceramic	RCDD106-B222K
RESISTORS			
	R702	1M 1/4W Carbon	VRD-HT2EY105J
	R703	1M 1/4W Carbon	VRD-HT2EY105J
	R704	22k 1/4W Carbon	VRD-HT2EY223J
	R705	10 1/4W Carbon	VRD-HT2EY100J
	R706	0.15 2W Metal Oxide	RR-HRNMR15J2C
	R707	820k 1/4W Carbon	VRD-HT2EY824J
	R708	750k 1/4W Carbon	VRD-HT2EY754J
	R709	0 1/4W Carbon	VRD-HT2EY000J
	R710	15k 1/4W Carbon	VRD-HT2EY153J
	R711	560 1/4W Carbon	VRD-HT2EY561J
	R712	1k 1/4W Carbon	VRD-HT2EY102J
	R713	10k 1/4W Carbon	VRD-HT2EY103J
	R714	100 2W Metal Oxide	VRS-RE3DA101J
	R715	270k 1/2W Carbon	VRD-HT2HY274J
	R716	270k 1/2W Carbon	VRD-HT2HY274J
	R717	18k 1/4W Carbon	VRD-HT2EY183J
	R718	5.6k 1/4W Carbon	VRD-HT2EY562J
	R719	3 3W Metal Oxide	RR-HRSM3R0J3C
	R720	1.5k 1/4W Carbon	VRD-HT2EY152J
	R721	220 1/2W Carbon	VRD-HT2HY221J
	R722	68 1/4W Carbon	VRD-HT2EY680J
	R723	100 1/4W Carbon	VRD-HT2EY101J
	R724	470 1/4W Carbon	VRD-HT2EY471J
	R725	1k 1/4W Carbon	VRD-HT2EY102J
	R726	1.2k 1/4W Carbon	VRD-HT2EY122J
	R727	1.5k 1/2W Carbon	VRD-HT2HY152J
	R728	10 1/4W Carbon	VRD-HT2EY100J
	R729	100 1/4W Carbon	VRD-HT2EY101J
	R730	220 1/4W Carbon	VRD-HT2EY221J
	R731	1k 1/4W Carbon	VRD-HT2EY102J
	R732	10k 1/4W Carbon	VRD-HT2EY103J
	R733	3.6k 1/4W Carbon	VRNHT2EK3601F
	R734	150 1/4W Carbon	VRNHT2EK1500F
	R735	1k 1/4W Carbon	VRNHT2EY1001F
	R736	1k 1/4W Carbon	VRD-HT2EY102J
	R737	2.2k 1/4W Carbon	VRD-HT2EY222J
	R738	2.2k 1/4W Carbon	VRD-HT2EY222J
	R739	5.6k 1/4W Carbon	VRD-HT2EY562J
	R740	51k 1/4W Carbon	VRD-HT2EY513J
SWITCH			
⚠	SW701	Switch	QSW-P0591CEZZ
MISCELLANEOUS PARTS			
⚠	RL701	Relay	RRLYD1010SNEZ
⚠	F702	Fuse T2A 250V TR-5	QFS-A1129SNEZ
	CN702	Connector, 3-pin	QCNCM1003SNEZ
	CN703	Connector, 12-pin	QCNCM1766SNEZ
		Heat Sink	PRDAF1085SNEZ
		Heat Sink	PRDAF1073SNEZ

H EMC UNIT

Mark	No.	Description	Part No.
DIODE			
⚠	VA701	Varistor	VHVNV470D10-C
FILTERS			
⚠	L701	Filter	RCiLZ1232SNEZ
⚠	L702	Filter	RCiLZ1232SNEZ
CAPACITORS			
⚠	C701	0.22 275V Film	RC-M2EE224RESC
⚠	C702	1000p 250V Ceramic	RCDE0910R102S
⚠	C703	1000p 250V Ceramic	RCEDE0910R102S
⚠	C735	0.22 275V Film	RC-M2E224RESC
RESISTOR			
	R701	390k 1/2W Carbon	VRD-HT2HY394J
MISCELLANEOUS PARTS			
⚠	F701	Fuse T2A 250V TR-5	QFS-A1129SNEZ
⚠	CN701	Socket, 3-pin	QSOCA1012SNEZ
	CNW701	Connecting Cord NF Cable	QCNW-1765SNEZ
	CNW702	Connecting Cord Earth Cable	QCNW-1769SNEZ

6. ADJUSTMENT



• Procedure for turning ON the power

1. Connecting the system

- Using the system cable, connect the plasma display and the media receiver.
- Connect the plasma display to the AC power source.
- Connect the media receiver to the AC power source.

2. Procedure for turning ON the power

- Turn ON the AC power switch located on the plasma display.
  The power indicator on the plasma display will start blinking in red.
  (When the AC power switch on the media receiver is not ON, the power indicator on the plasma display always blinks in red.)
- Turn ON the power switch located on the media receiver.
  The power indicator on the media receiver will be illuminated in green. Simultaneously, the power indicator on the plasma display will change from blinking in red to illumination in green. Now the system has started up.
- If the power indicator on the media receiver is illuminated in red, press the 10 key located on the remote controller and the STANDBY/ON button located on the plasma display. The power indicators on the plasma display and the media receiver will change from red to green. Now the system has started up.

• Procedure for adjusting each part of media receiver

- The adjustments were made to the best settings at factory. If any setting deviates or if any readjustment is regarded as necessary when any part is replaced, perform the following steps.
- Any parameter that has been changed within the process adjustment is stored on the memory. If any readjustment is required, write down the current value before changing it.

1. Preparation for adjustment

- Use a stable AC power source.
- If the program is upgraded, it will take approximately 1 minute for the EEPROM to be initialized before any video appears. Therefore, you will need to wait for this time period. Do not turn OFF the power or operate the system during the period.
- If the program is rewritten, write down the parameters that have been changed within the process adjustment (see “5.OSD menu and parameters displayed at manual adjustment), initialize the EEPROM, and then reenter the recorded values.

2. Procedure for upgrading the software

(1) With the power being OFF, open the top cabinet for the media receiver and then set the slide switch from the NORMAL position to the WRITE position by inserting a needle-like insulator into the cutout located between the WHITE port on the rear of the shield case for the I/F board and the RS-232C port.
(2) Connect the PC having the program installed, to the media receiver using the cross cable for the RS-232C port (for the details of the program, see Appendix).
(3) Open the MS-DOS window on the PC and then go to the directory in which the software is installed.
(4) Start up the system to which the media receiver and plasma display have been connected.
(5) Run “vup.bat at the MS-DOS prompt. The software will be upgraded.
(6) Load the file “civic_XXXa.bhx/main.bhx/osd.bhx”. It will take approximately 7 minutes until the file has been loaded. Never turn OFF the power or operate the system during this rewriting period.
(7) After the file has been loaded, turn OFF the plasma display and the media receiver and then return the slide switch in the above step 1 from the WRITE position to the NORMAL position. Now the software has been upgraded.

3. Entering a special mode

① Entering the process adjustment mode

[Steps]

(1) When using the remote controller:
Using the system cable, properly connect the plasma display and the media receiver, and then turn ON the power.
After the system has started up, press the PROCESS ADJ button located on the remote controller.

(2) When using buttons on the main unit:
Using the system cable, properly connect the plasma display and the media receiver.
Turn ON the power while holding down the INPUT SELECT button and Vol UP button located the plasma display.

[Description]

Various adjustments can be made manually.

② Entering the inspection process mode

[Steps]

After the system has started up, press the PROCESS ADJ button located on the remote controller.
Set the parameter SIGNAL INFO to 1 on page 6 of the PROCESS ADJUSTMENT A MODE MENU.
Subsequently, make the necessary adjustments in accordance with the above menu.

③ Procedure for setting up delivery

[Steps]

After the system has started up, press the DELIVERY SETUP button located on the remote controller.
(Within the adjustment process, the channel settings remain unchanged. Once you exit the process adjustment mode, the channel settings entered in the delivery adjustment mode become valid.)

[Description]

The user's adjustment parameters and others will be set to the default values. The channel settings will also be initialized.

4. Exiting a special mode

(1) Process adjustment mode: Press the PROCESS ADJ button located on the remote controller or turn OFF the power.
(2) Inspection process mode: Set the parameter SIGNAL INFO to 0 on page 6 of the PROCESS ADJ A MODE MENU or turn OFF the power.
(3) Delivery setup: After the delivery setup has been finished, the process adjustment mode is automatically selected. To exit the process adjustment mode, press the PROCESS ADJ button located on the remote controller or turn OFF the power.

5. OSD menu and parameters displayed at manual adjustment

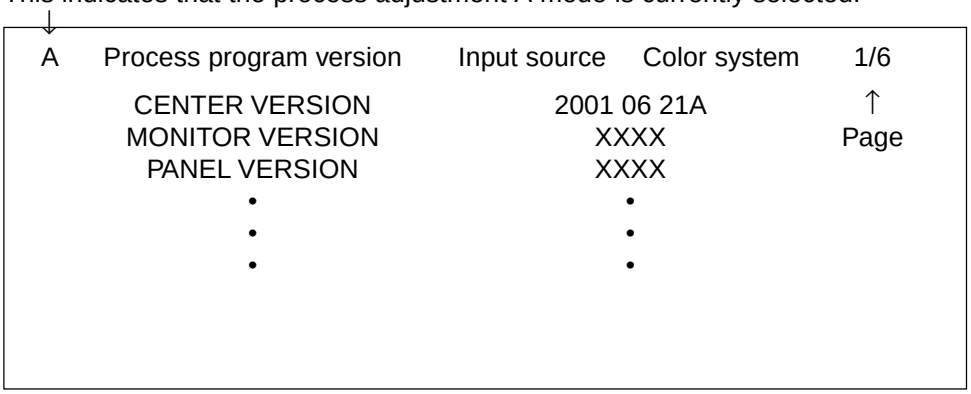
* The default values may slightly differ depending upon the program version to be rewritten.
* The settings are not initialized to the default values by merely rewriting the program. (See the paragraph for Preparation for adjustment.)

(1) Descriptions of special buttons in process adjustment mode

Cursor UP key	: Proceeds to the next page.
Cursor DOWN key	: Returns to the previous page.
Vol UP key	: Increases the adjusted value by 1.
Vol DOWN key	: Decreases the adjusted value by 1.
Cursor LEFT key	: Increases the adjusted value by 10.
Cursor RIGHT key	: Decreases the adjusted value by 10.
Tuning UP key	: Moves up the cursor.
Tuning DOWN key	: Moves down the cursor.

(2) Organization of process adjustment screen

This indicates that the process adjustment A mode is currently selected.



2nd page

Parameter displaye	**Setting range**	**Description**
• +BAdj3.3V	0 ~ 255	3.3 V adjustment
• +BAdj2.5V	0 ~ 255	2.2 V adjustment
• PAL Y CONTRAST	0 ~ 63	PAL Y level adjustment
• PAL COLOR GAIN	0 ~ 63	PAL color density adjustment
• MAIN CR GAIN PAL	0 ~ 255	PAL Cr level adjustment
• MAIN SUBBRIGHT 15K	0 ~ 63	Pedestal level adjustment (15 k)
• MAIN CONTRAST 15K	0 ~ 15	PCB input amplitude adjustment (15 k)
• SUB PAL Y	-30 ~ 30	Sub PAL Y level adjustment
• SUB PAL COLOR GAIN	0 ~ 63	Sub PAL color density adjustment
• PEAK ACL SW	OFF/ON	

3rd page

Parameter displaye	**Setting range**	**Description**
• SECAM Y CONTRAST	0 ~ 63	SECAM Y level adjustment
• SECAM COLOR GAIN	0 ~ 63	SECAM color density level adjustment
• MAIN CR GAIN SECAM	0 ~ 255	SECAM Cr level adjustment
• N358 Y CONTRAST	0 ~ 63	N358 Y level adjustment
• N358 COLOR GAIN	0 ~ 63	N358 color density adjustment
• MAIN CR GAIN N358	0 ~ 255	N358 Cr level adjustment
• N358 TINT	-30 ~ 30	N358 tone adjustment
• COMP 15K Y CONTRAST	0 ~ 63	COMP 15 k Y level adjustment
• COMP 15K COLOR GAIN	0 ~ 68	COMP 15 k color density adjustment
• MAIN CR GAIN COMP15K	0 ~ 255	COMP 15 k Cr level adjustment
• COMP HDTV SUB BRIGHT	0 ~ 63	COMP HDTV black level adjustment
• COMP HDTV CONTRAST	0 ~ 15	COMP HDTV Y level adjustment
• DATA COPY	OFF/ON	COMP HDTV color density adjustment

The values for the above parameters should be written down before the EEPROM is replaced on the media receiver.

6. Procedures before and after replacing the I/F board

1) Before replacing the I/F board, write down the values for the parameters listed on the 2nd and 3rd pages of the Adjustment Process A screen.
If the values for the parameters cannot be written down because the I/F board is completely broken or for any other reason, make all the adjustments in accordance with the paragraph for Adjustment procedure and parameters, rather than the following procedures. (End)
Set the parameters listed on the 2nd and 3rd pages of the Adjustment Process A screen to the values you have written down.

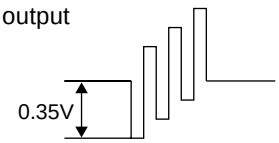
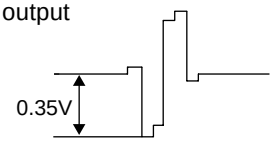
7. Adjustment parameters

1) Analog adjustment

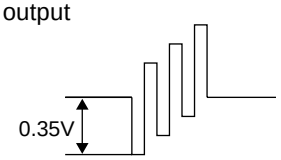
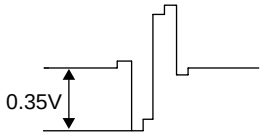
(1) Prior adjustment for AVC system chassis

	Adjustment item	Description	Adjustment procedure
1	Destination check		1. Call the process adjustment mode. 2. For the A2PZ50MP2E, check that the destination is “Europe”.
2	AVC center 3.3V adjustment	Connect DC voltmeter to TP7008 (Change TP No. to TP1702 starting with 2nd lot).	Adjust output voltage of DC/DC 5 V line to 3.3 ±0.02 V. Adjusted value: 3.3 ±0.02 V
3	AVC center 2.5V adjustment	Connect DC voltmeter to TP7007 (Change TP No. to TP1702 starting with 2nd lot).	Adjust output voltage of DC/DC 2.5 V line to 2.6 ±0.02 V. Adjusted value: 2.6 ±0.02 V

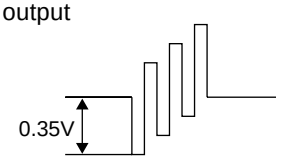
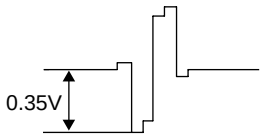
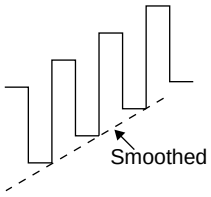
(2) PAL signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Set color system to “PAL”. 2. Select PAL source. Color bar signal including 100% white, such as split field color bar
2	Tuner Y level adjustment		1. Adjust TP1101 so that the Y signal without the chroma component should be 1.0 Vp-p (between the bottom of sync signal and the white peak). Adjustment value: 1.00 ±0.05 V
3	MAIN PAL Y level adjustment		1. Adjust TB1274_MAIN output (TP803) to 0.35 Vp-p. Adjusted value: 0.7 ±0.05 V
4	MAIN PAL color density adjustment		1. Adjust TB1274_MAIN output (TP802) to 0.35 Vp-p. Adjusted value: 0.35 ±0.025 V 
5	MAIN PAL Cr level adjustment		1. Adjust TB1274_MAIN output (TP801) to 0.35 Vp-p. Adjusted value: 0.35 ±0.05 V 
6	MAIN CONTRAST adjustment		1. Turn off the PEAK ACL control. Adjust the output (TP815) of IC810 to have 1.1 Vp-p from the pedestal level. Adjusted value: 1.1 ±0.05 V
		Press the 2-screen key.	1. Select the special 2-screen settings for adjustment (so that the same video source is reflected on MAIN/SUB).
7	SUB PAL Y level adjustment		1. Adjust TB1274_SUB output (TP806) to 0.9 Vp-p. Adjusted value: 0.9 ±0.05 V
8	SUB PAL color density adjustment		1. Adjust TB1274_SUB output (TP805) to 0.9 Vp-p. Adjusted value: 0.9 ±0.05 V

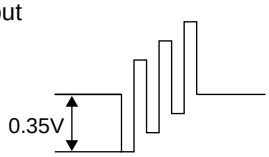
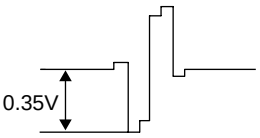
(3) SECAM signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Set color system to SECAM. 2. Select SECAM source. Color bar signal including 100% white, such as split field color bar
2	MAIN SECAM Y level adjustment		1. Adjust TB1274_MAIN output (TP803) to 0.7 Vp-p. Adjusted value: 0.7 ±0.05 V
3	MAIN SECAM color density adjustment		1. Adjust TB1274_MAIN output (TP802) to 0.35 Vp-p. Adjusted value: 0.35 ±0.025 V 
4	MAIN SECAM Cr level adjustment		1. Adjust TB1274_MAIN output (TP801) to 0.35 Vp-p. Adjusted value: 0.35 ±0.025 V 

(4) N358 signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Set color system to N358. 2. Select N358 source. SMPTE color bar or similar color bar signal including 100% white.
2	MAIN N368 Y level adjustment		1. Adjust TB1274_MAIN output (TP803) to 0.7 Vp-p. Adjusted value: 0.7 ±0.05 V
3	MAIN N368 color density adjustment		1. Adjust TB1274_MAIN output (TP802) to 0.35 Vp-p. Adjusted value: 0.35 ±0.025 V 
4	MAIN N368 Cr level adjustment		1. Adjust TB1274_MAIN output (TP801) to 0.35 Vp-p. Adjusted value: 0.35 ±0.025 V 
5	MAIN N368 hue adjustment		1. Adjust TB1274_MAIN output (TP802) so that waveform becomes as illustrated below: 

(5) Component 15 kHz signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Select component 15 kHz. 2. Select component source. Color bar signal including 100% white, like split field color bar
2	MAIN component 15 K Y level adjustment		Adjust TB1274_MAIN output (TP803) to 0.7 Vp-p. Adjusted value: 0.7 ±0.05 V
3	MAIN component 15 K color density adjustment		Adjust TB1274_MAIN output (TP802) to 0.35 Vp-p. Adjusted value: 0.35 ±0.025 V 
4	MAIN component 15 K Cr level adjustment		Adjust TB1274_MAIN output (TP801) to 0.35 Vp-p. Adjusted value: 0.35 ±0.025 V 

(6) Component HDTV signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Input HDTV (1080i) component signal. 2. Select component source. Color bar signal including 100% white, like split field color bar
2	MAIN component HDTV contrast adjustment		Turn off the PEAK ACL control. Adjust the output (TP815) of IC810 (11) to have 1.1 Vp-p from the pedestal level. Adjusted value: 1.1 ±0.05 V

2. Factory settings

(1) Data Copy

	Adjustment item	Description	Adjustment procedure
1	Data Copy		1. Using the adjustment key, set “ON” in the DATA COPY line. Wait until “OFF” is displayed instead. Finally turn off the power to quit the process adjustment mode.

(2) Delivery setup

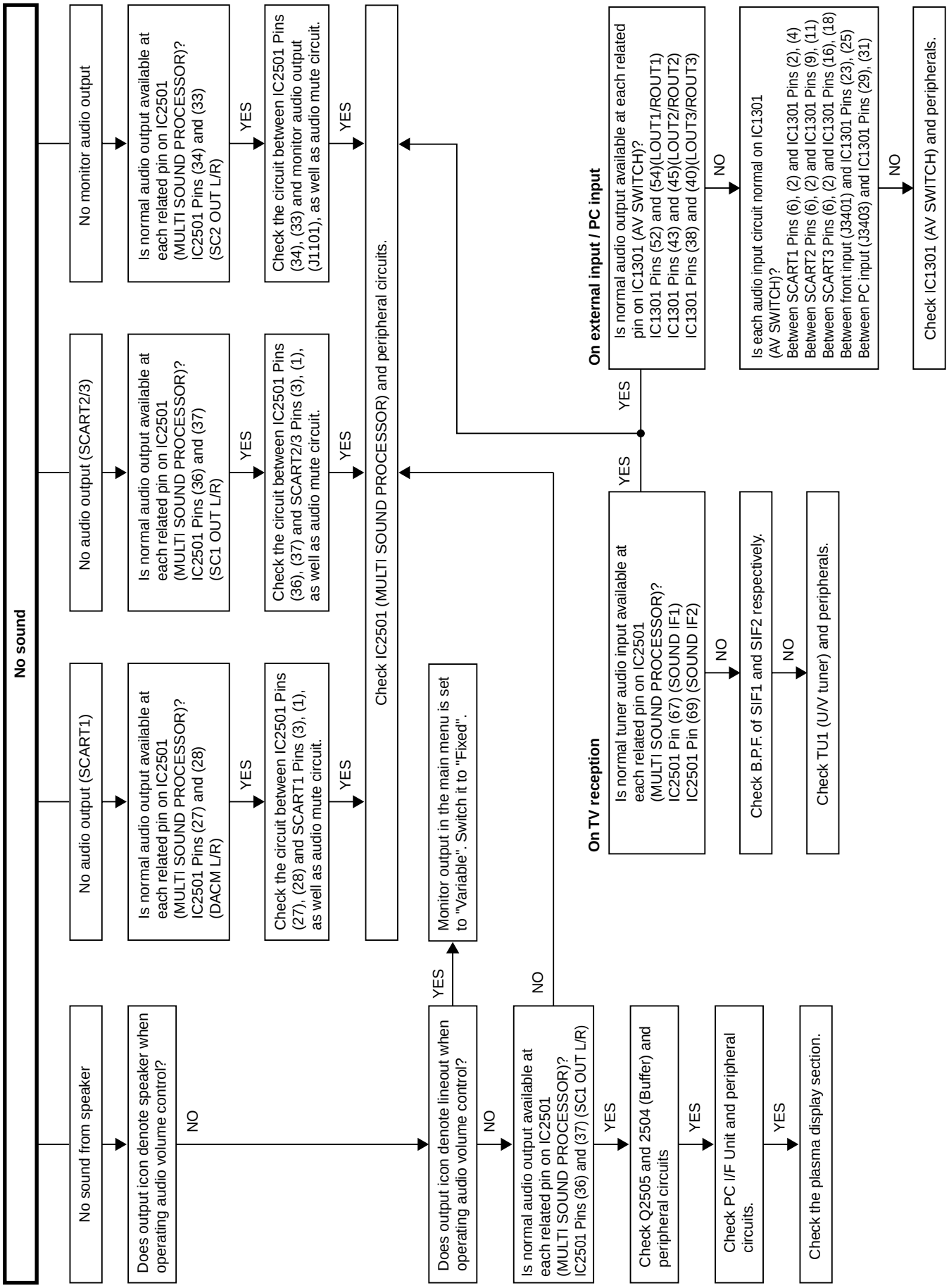
	Adjustment item	Description	Adjustment procedure
1	Delivery setup		Press the Delivery Setup button located on the remote controller, or position the cursor on the INDUSTRY INIT line, set the line to ON with the ADJ key, and then press the ENTER key. The adjustment is finished when the line turns OFF,

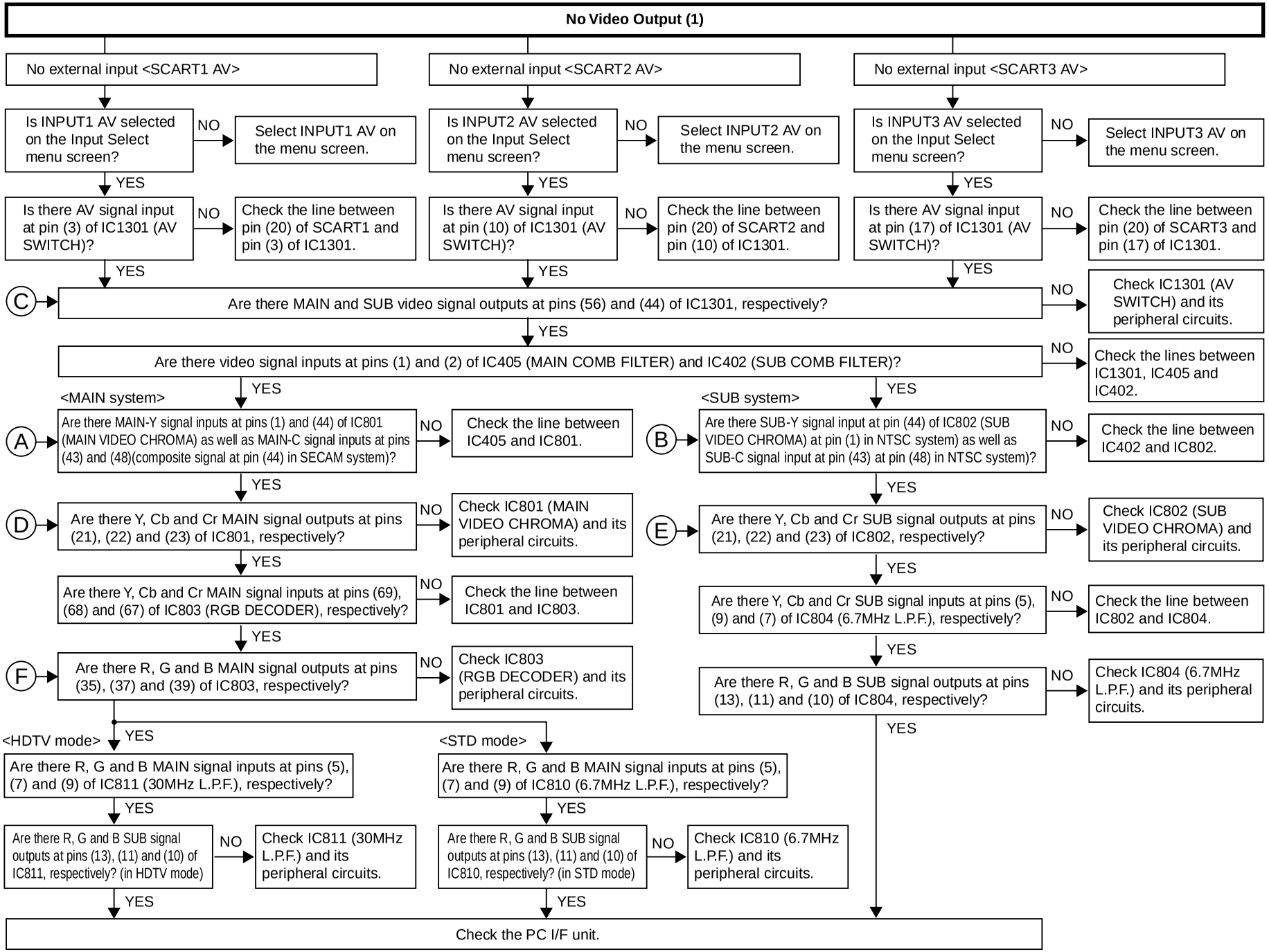
* Finally turn off the power to exit from the process adjustment mode.

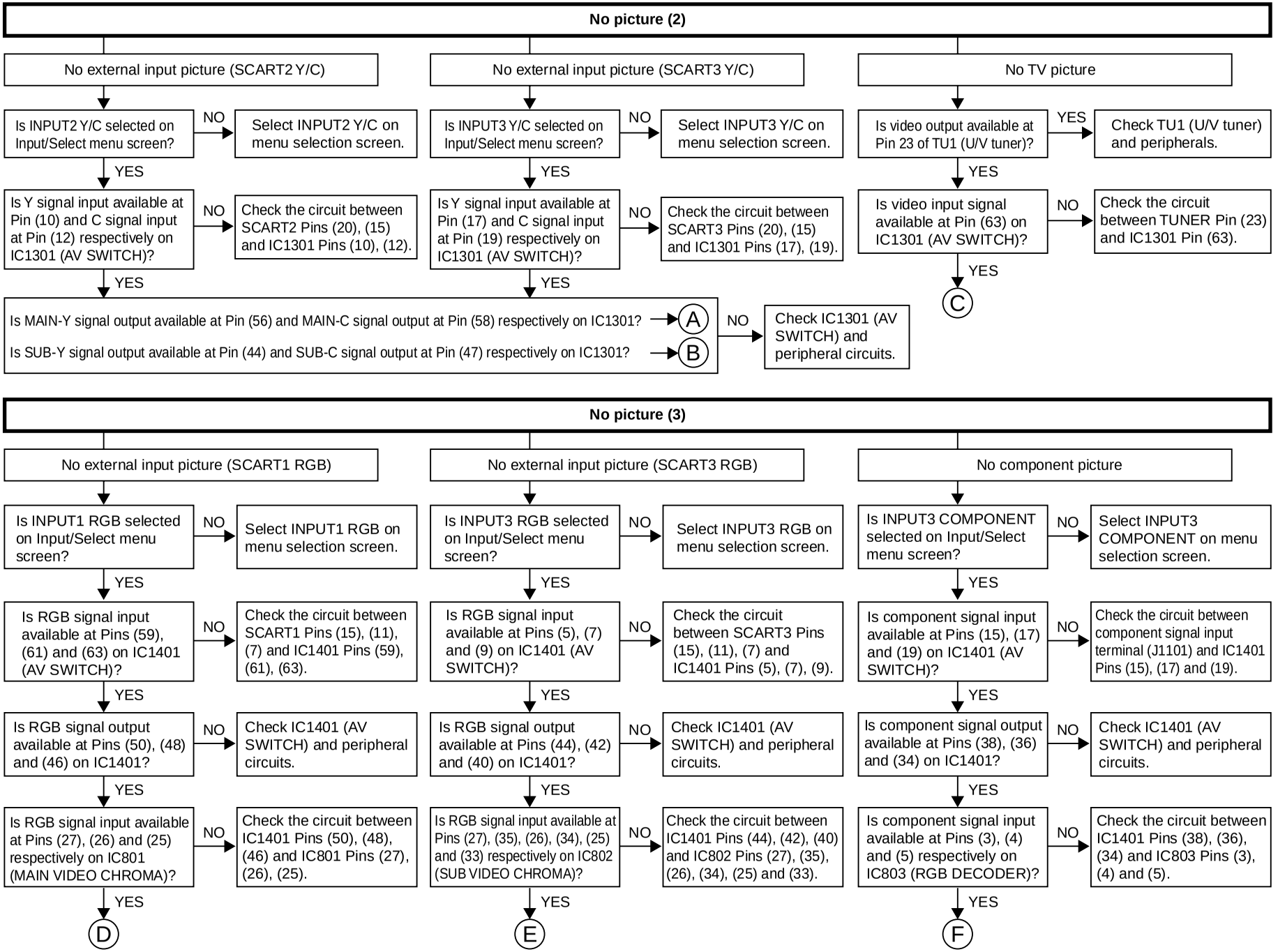
7. GENERAL INFORMATION

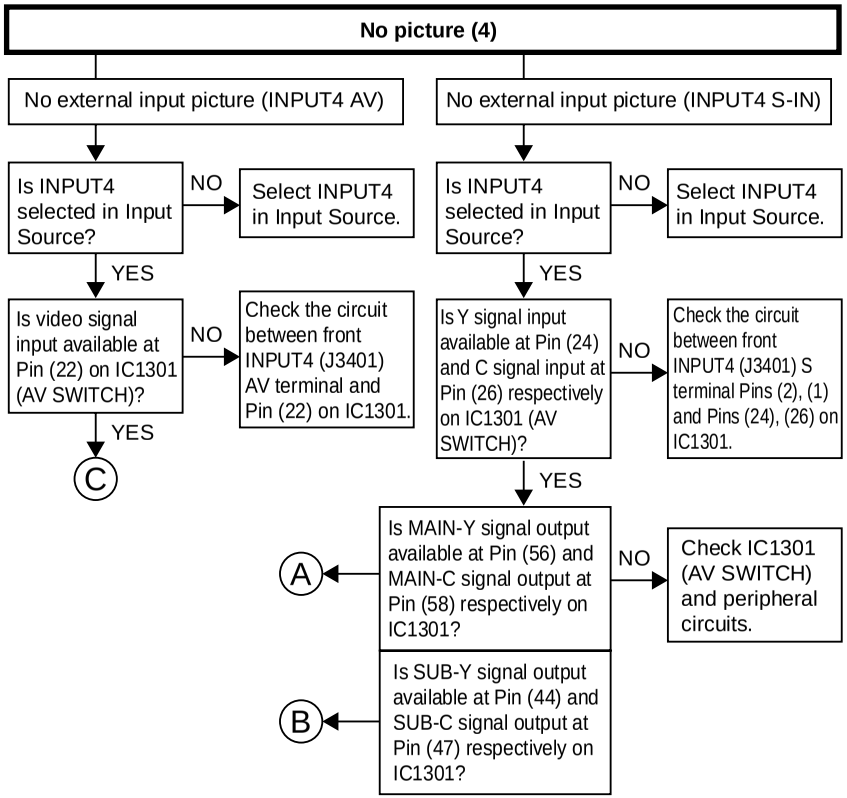
7.1 DIAGNOSIS

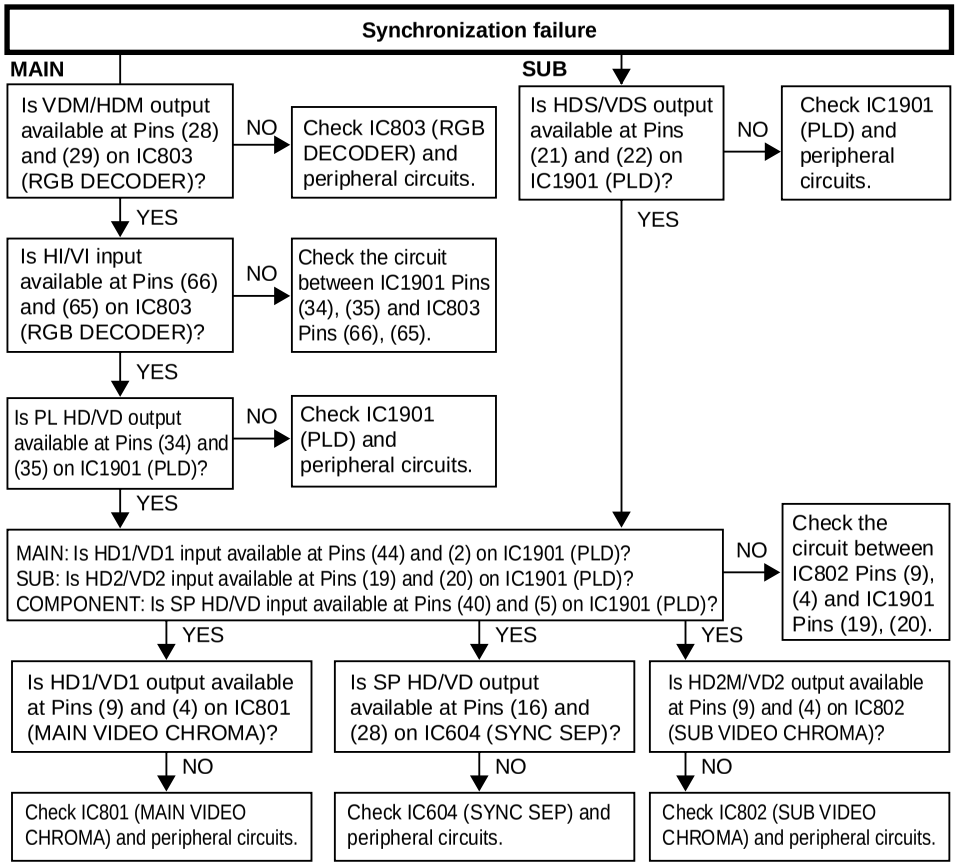
7.1.1 TROUBLE SHOOTING

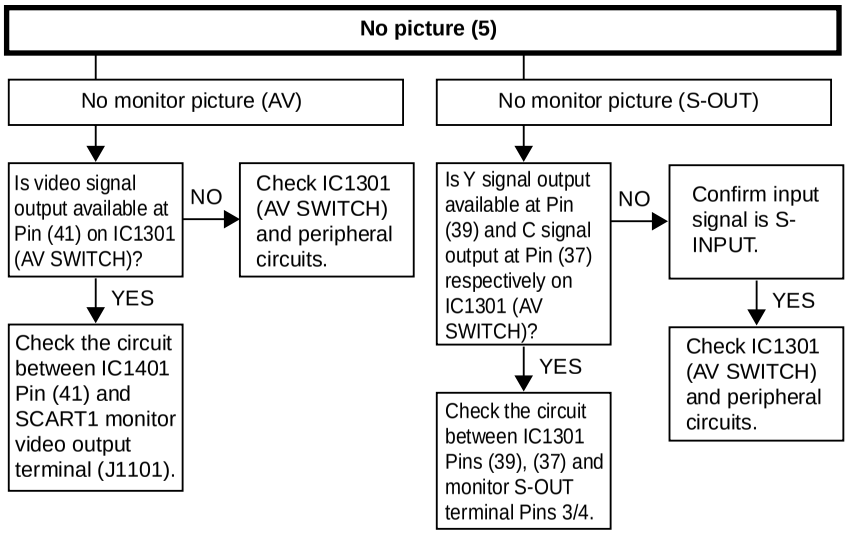


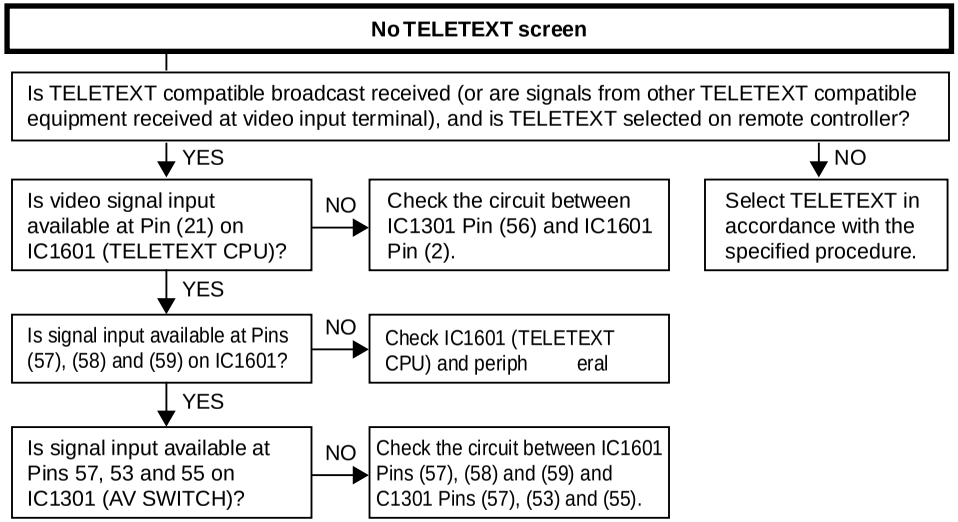

No Video Output (1)
No external input <SCART1 AV>
No external input <SCART2 AV>
No external input <SCART3 AV>
Is INPUT1 AV selected on the Input Select menu screen?
NO
Select INPUT1 AV on the menu screen.
YES
Is INPUT2 AV selected on the Input Select menu screen?
NO
Select INPUT2 AV on the menu screen.
YES
Is INPUT3 AV selected on the Input Select menu screen?
NO
Select INPUT3 AV on the menu screen.
YES
Is there AV signal input at pin (3) of IC1301 (AV SWITCH)?
NO
Check the line between pin (20) of SCART1 and pin (3) of IC1301.
YES
Is there AV signal input at pin (10) of IC1301 (AV SWITCH)?
NO
Check the line between pin (20) of SCART2 and pin (10) of IC1301.
YES
Is there AV signal input at pin (17) of IC1301 (AV SWITCH)?
NO
Check the line between pin (20) of SCART3 and pin (17) of IC1301.
YES
C
Are there MAIN and SUB video signal outputs at pins (56) and (44) of IC1301, respectively?
NO
Check IC1301 (AV SWITCH) and its peripheral circuits.
YES
Are there video signal inputs at pins (1) and (2) of IC405 (MAIN COMB FILTER) and IC402 (SUB COMB FILTER)?
NO
Check the lines between IC1301, IC405 and IC402.
YES
<MAIN system>
YES
<SUB system>
A
Are there MAIN-Y signal inputs at pins (1) and (44) of IC801 (MAIN VIDEO CHROMA) as well as MAIN-C signal inputs at pins (43) and (48)(composite signal at pin (44) in SECAM system)?
NO
Check the line between IC405 and IC801.
B
Are there SUB-Y signal input at pin (44) of IC802 (SUB VIDEO CHROMA) at pin (1) in NTSC system) as well as SUB-C signal input at pin (43) at pin (48) in NTSC system)?
NO
Check the line between IC402 and IC802.
YES
D
Are there Y, Cb and Cr MAIN signal outputs at pins (21), (22) and (23) of IC801, respectively?
NO
Check IC801 (MAIN VIDEO CHROMA) and its peripheral circuits.
YES
E
Are there Y, Cb and Cr SUB signal outputs at pins (21), (22) and (23) of IC802, respectively?
NO
Check IC802 (SUB VIDEO CHROMA) and its peripheral circuits.
YES
Are there Y, Cb and Cr MAIN signal inputs at pins (69), (68) and (67) of IC803 (RGB DECODER), respectively?
NO
Check the line between IC801 and IC803.
YES
Are there Y, Cb and Cr SUB signal inputs at pins (5), (9) and (7) of IC804 (6.7MHz L.P.F.), respectively?
NO
Check the line between IC802 and IC804.
YES
F
Are there R, G and B MAIN signal outputs at pins (35), (37) and (39) of IC803, respectively?
NO
Check IC803 (RGB DECODER) and its peripheral circuits.
YES
Are there R, G and B SUB signal outputs at pins (13), (11) and (10) of IC804, respectively?
NO
Check IC804 (6.7MHz L.P.F.) and its peripheral circuits.
YES
<HDTV mode>
YES
<STD mode>
Are there R, G and B MAIN signal inputs at pins (5), (7) and (9) of IC811 (30MHz L.P.F.), respectively?
YES
Are there R, G and B MAIN signal inputs at pins (5), (7) and (9) of IC810 (6.7MHz L.P.F.), respectively?
YES
Are there R, G and B SUB signal outputs at pins (13), (11) and (10) of IC811, respectively? (in HDTV mode)
NO
Check IC811 (30MHz L.P.F.) and its peripheral circuits.
YES
Are there R, G and B SUB signal outputs at pins (13), (11) and (10) of IC810, respectively? (in STD mode)
NO
Check IC810 (6.7MHz L.P.F.) and its peripheral circuits.
YES
Check the PC I/F unit.

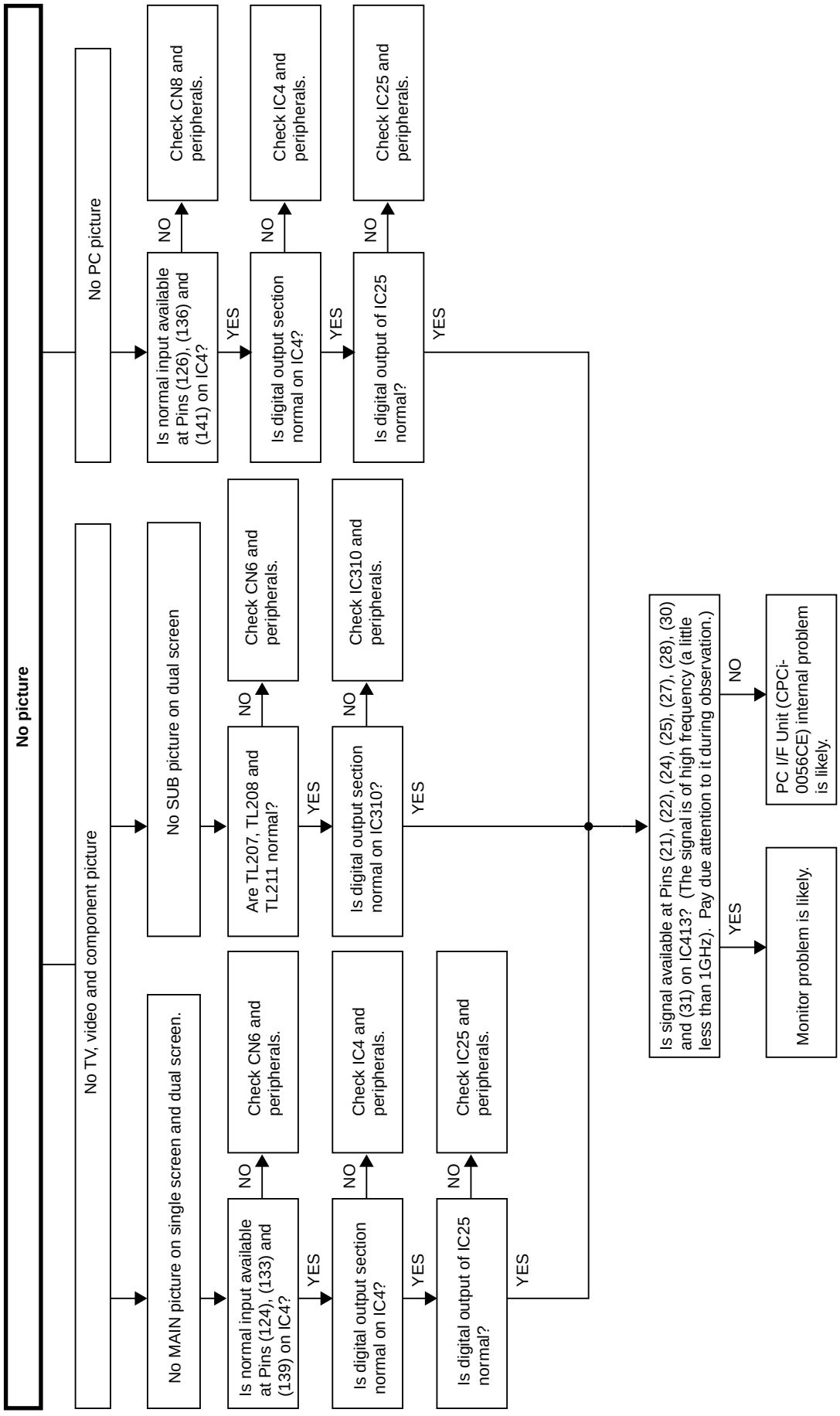

No picture (2)
No external input picture (SCART2 Y/C)
Is INPUT2 Y/C selected on Input/Select menu screen?
NO
Select INPUT2 Y/C on menu selection screen.
YES
Is Y signal input available at Pin (10) and C signal input at Pin (12) respectively on IC1301 (AV SWITCH)?
NO
Check the circuit between SCART2 Pins (20), (15) and IC1301 Pins (10), (12).
YES
No external input picture (SCART3 Y/C)
Is INPUT3 Y/C selected on Input/Select menu screen?
NO
Select INPUT3 Y/C on menu selection screen.
YES
Is Y signal input available at Pin (17) and C signal input at Pin (19) respectively on IC1301 (AV SWITCH)?
NO
Check the circuit between SCART3 Pins (20), (15) and IC1301 Pins (17), (19).
YES
No TV picture
Is video output available at Pin 23 of TU1 (U/V tuner)?
YES
Check TU1 (U/V tuner) and peripherals.
YES
Is video input signal available at Pin (63) on IC1301 (AV SWITCH)?
NO
Check the circuit between TUNER Pin (23) and IC1301 Pin (63).
YES
C
Is MAIN-Y signal output available at Pin (56) and MAIN-C signal output at Pin (58) respectively on IC1301?
A
Is SUB-Y signal output available at Pin (44) and SUB-C signal output at Pin (47) respectively on IC1301?
B
NO
Check IC1301 (AV SWITCH) and peripheral circuits.
No picture (3)
No external input picture (SCART1 RGB)
Is INPUT1 RGB selected on Input/Select menu screen?
NO
Select INPUT1 RGB on menu selection screen.
YES
Is RGB signal input available at Pins (59), (61) and (63) on IC1401 (AV SWITCH)?
NO
Check the circuit between SCART1 Pins (15), (11), (7) and IC1401 Pins (59), (61), (63).
YES
Is RGB signal output available at Pins (50), (48) and (46) on IC1401?
NO
Check IC1401 (AV SWITCH) and peripheral circuits.
YES
Is RGB signal input available at Pins (27), (26) and (25) respectively on IC801 (MAIN VIDEO CHROMA)?
NO
Check the circuit between IC1401 Pins (50), (48), (46) and IC801 Pins (27), (26), (25).
YES
D
No external input picture (SCART3 RGB)
Is INPUT3 RGB selected on Input/Select menu screen?
NO
Select INPUT3 RGB on menu selection screen.
YES
Is RGB signal input available at Pins (5), (7) and (9) on IC1401 (AV SWITCH)?
NO
Check the circuit between SCART3 Pins (15), (11), (7) and IC1401 Pins (5), (7), (9).
YES
Is RGB signal output available at Pins (44), (42) and (40) on IC1401?
NO
Check IC1401 (AV SWITCH) and peripheral circuits.
YES
Is RGB signal input available at Pins (27), (35), (26), (34), (25) and (33) respectively on IC802 (SUB VIDEO CHROMA)?
NO
Check the circuit between IC1401 Pins (44), (42), (40) and IC802 Pins (27), (35), (26), (34), (25) and (33).
YES
E
No component picture
Is INPUT3 COMPONENT selected on Input/Select menu screen?
NO
Select INPUT3 COMPONENT on menu selection screen.
YES
Is component signal input available at Pins (15), (17) and (19) on IC1401 (AV SWITCH)?
NO
Check the circuit between component signal input terminal (J1101) and IC1401 Pins (15), (17) and (19).
YES
Is component signal output available at Pins (38), (36) and (34) on IC1401?
NO
Check IC1401 (AV SWITCH) and peripheral circuits.
YES
Is component signal input available at Pins (3), (4) and (5) respectively on IC803 (RGB DECODER)?
NO
Check the circuit between IC1401 Pins (38), (36), (34) and IC803 Pins (3), (4) and (5).
YES
F


No picture (4)
No external input picture (INPUT4 AV)
No external input picture (INPUT4 S-IN)
Is INPUT4 selected in Input Source?
NO
Select INPUT4 in Input Source.
YES
Is video signal input available at Pin (22) on IC1301 (AV SWITCH)?
Check the circuit between front INPUT4 (J3401) AV terminal and Pin (22) on IC1301.
C
Is Y signal input available at Pin (24) and C signal input at Pin (26) respectively on IC1301 (AV SWITCH)?
Check the circuit between front INPUT4 (J3401) S terminal Pins (2), (1) and Pins (24), (26) on IC1301.
A
Is MAIN-Y signal output available at Pin (56) and MAIN-C signal output at Pin (58) respectively on IC1301?
Check IC1301 (AV SWITCH) and peripheral circuits.
B
Is SUB-Y signal output available at Pin (44) and SUB-C signal output at Pin (47) respectively on IC1301?


Synchronization failure
MAIN
SUB
Is VDM/HDM output available at Pins (28) and (29) on IC803 (RGB DECODER)?
Check IC803 (RGB DECODER) and peripheral circuits.
Is HDS/VDS output available at Pins (21) and (22) on IC1901 (PLD)?
Check IC1901 (PLD) and peripheral circuits.
Is HI/VI input available at Pins (66) and (65) on IC803 (RGB DECODER)?
Check the circuit between IC1901 Pins (34), (35) and IC803 Pins (66), (65).
Is PL HD/VD output available at Pins (34) and (35) on IC1901 (PLD)?
Check IC1901 (PLD) and peripheral circuits.
MAIN: Is HD1/VD1 input available at Pins (44) and (2) on IC1901 (PLD)?
SUB: Is HD2/VD2 input available at Pins (19) and (20) on IC1901 (PLD)?
COMPONENT: Is SP HD/VD input available at Pins (40) and (5) on IC1901 (PLD)?
Check the circuit between IC802 Pins (9), (4) and IC1901 Pins (19), (20).
Is HD1/VD1 output available at Pins (9) and (4) on IC801 (MAIN VIDEO CHROMA)?
Is SP HD/VD output available at Pins (16) and (28) on IC604 (SYNC SEP)?
Is HD2M/VD2 output available at Pins (9) and (4) on IC802 (SUB VIDEO CHROMA)?
Check IC801 (MAIN VIDEO CHROMA) and peripheral circuits.
Check IC604 (SYNC SEP) and peripheral circuits.
Check IC802 (SUB VIDEO CHROMA) and peripheral circuits.

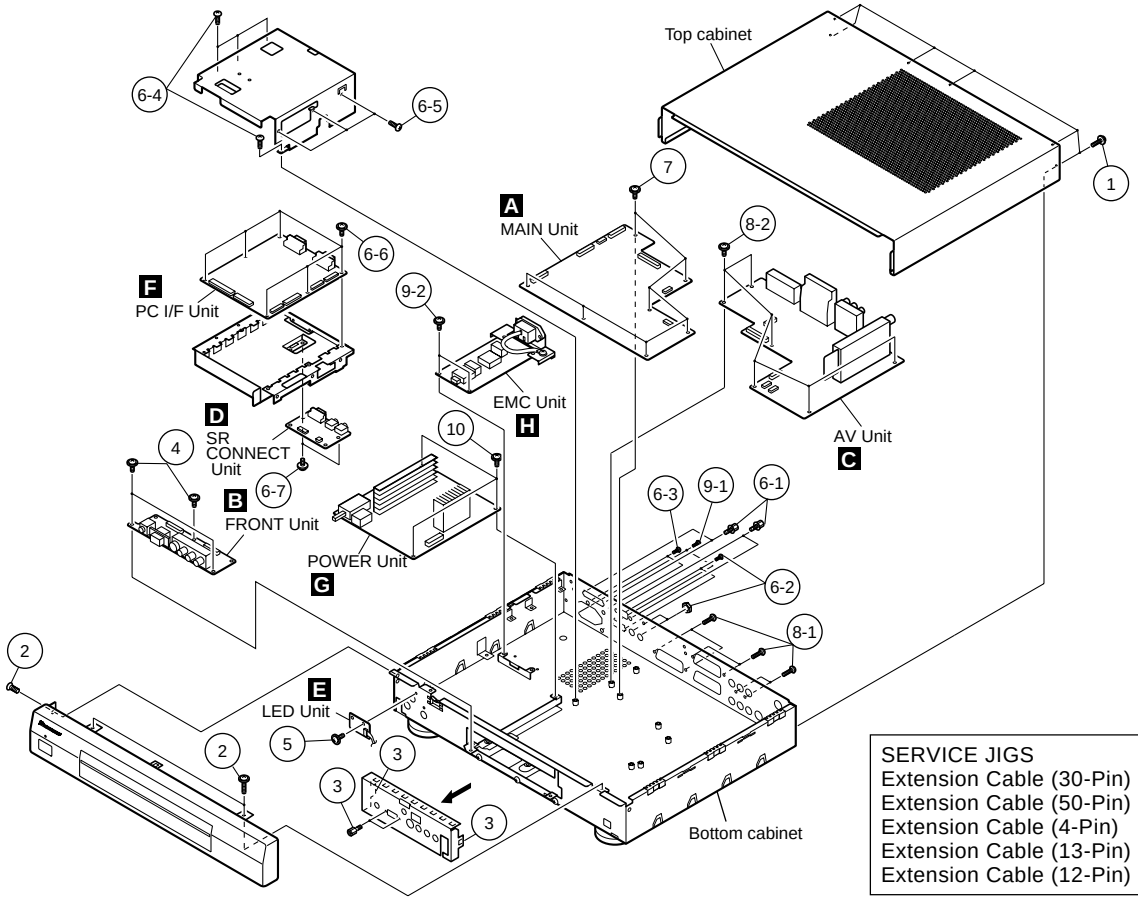

No picture (5)
No monitor picture (AV)
No monitor picture (S-OUT)
Is video signal output available at Pin (41) on IC1301 (AV SWITCH)?
Check IC1301 (AV SWITCH) and peripheral circuits.
Check the circuit between IC1401 Pin (41) and SCART1 monitor video output terminal (J1101).
Is Y signal output available at Pin (39) and C signal output at Pin (37) respectively on IC1301 (AV SWITCH)?
Confirm input signal is S-INPUT.
Check IC1301 (AV SWITCH) and peripheral circuits.
Check the circuit between IC1301 Pins (39), (37) and monitor S-OUT terminal Pins 3/4.


No TELETEXT screen
Is TELETEXT compatible broadcast received (or are signals from other TELETEXT compatible equipment received at video input terminal), and is TELETEXT selected on remote controller?
Is video signal input available at Pin (21) on IC1601 (TELETEXT CPU)?
Check the circuit between IC1301 Pin (56) and IC1601 Pin (2).
Select TELETEXT in accordance with the specified procedure.
Is signal input available at Pins (57), (58) and (59) on IC1601?
Check IC1601 (TELETEXT CPU) and periph eral
Is signal input available at Pins 57, 53 and 55 on IC1301 (AV SWITCH)?
Check the circuit between IC1601 Pins (57), (58) and (59) and C1301 Pins (57), (53) and (55).


No picture
No TV, video and component picture
No MAIN picture on single screen and dual screen.
Is normal input available at Pins (124), (133) and (139) on IC4?
NO
Check CN6 and peripherals.
YES
Is digital output section normal on IC4?
NO
Check IC4 and peripherals.
YES
Is digital output of IC25 normal?
NO
Check IC25 and peripherals.
YES
No SUB picture on dual screen
Are TL207, TL208 and TL211 normal?
NO
Check CN6 and peripherals.
YES
Is digital output section normal on IC310?
NO
Check IC310 and peripherals.
YES
No PC picture
Is normal input available at Pins (126), (136) and (141) on IC4?
NO
Check CN8 and peripherals.
YES
Is digital output section normal on IC4?
NO
Check IC4 and peripherals.
YES
Is digital output of IC25 normal?
NO
Check IC25 and peripherals.
YES
Is signal available at Pins (21), (22), (24), (25), (27), (28), (30) and (31) on IC413? (The signal is of high frequency (a little less than 1GHz). Pay due attention to it during observation.)
NO
PC I/F Unit (CPCi-0056CE) internal problem is likely.
YES
Monitor problem is likely.

7.1.2 DISASSEMBLY

1. Remove the six lock screws from the back of the top cabinet. Slide the top cabinet backward and detach it.
2. Remove the three lock screws from the front panel. Undo the three hooks at the top and the four hooks at the bottom, and detach the front panel.
3. Remove the two hexagonal shafts from the front shield. Undo the two hooks on both sides and detach the front shield.
4. Remove the three lock screws from the front unit and detach this unit.
5. Remove the one lock screw from the LED unit and detach this unit.
6. Remove the PC I/F unit and SR connect unit assemblies.
   6-1. Remove the two hexagonal shafts each from the system cable (white) terminal and the RS-232C terminal, both on the PC I/F unit.
   6-2. Remove the two lock nuts from the control terminal on the SR connect unit, and the two lock screws from the system cable (gray) terminal also on the SR connect unit.
   6-3. Remove the two lock screws from the PC I/F unit bracket.
   6-4. Remove the four lock screws from the PC I/F unit and SR connect unit assemblies. Take out these assemblies.
   6-5. Remove the three lock screws from the brackets of the PC I/F unit and SR connect unit assemblies. Detach the shield.
   6-6. Remove the six lock screws from the PC I/F unit. Detach this unit from the bracket.
   6-7. Remove the two lock screws from the SR connect unit. Detach this unit from the bracket.
7. Remove the seven lock screws from the main unit and detach this unit.
8. Remove the AV unit.
   8-1. Remove the six lock screws from the AV unit.
   8-2. Remove the six lock screws from the AV unit and detach this unit.
9. Remove the EMC unit assemblies.
   9-1. Remove the two lock screws from the EMC unit bracket.
   9-2. Remove the two lock screws from the EMC unit and detach this unit.
10. Remove the three lock screws from the power unit and detach this unit.



SERVICE JIGS	
Extension Cable (30-Pin)	QCNW-6099CEZZ
Extension Cable (50-Pin)	QCNW-6100CEZZ
Extension Cable (4-Pin)	QCNW-6101CEZZ
Extension Cable (13-Pin)	QCNW-6102CEZZ
Extension Cable (12-Pin)	QCNW-6103CEZZ

7.2 EXPLANATION

7.2.1 IC DESCRIPTIONS

- **Description of Functions of Main ICs on PC I/F Unit**

- **IC4 (CXA3506R)**
  This IC is an A/D converter that incorporates a 3-channel, 8-bit, 120 MSPS amplifier and PLL. It is used for the video signals input to the I/F board on the main channel in the 1-screen and 2-screen modes, and also for the video signals input from the front for the PC.
  The video signals (analog RGB) from the CN6 are input to IN1 of IC4.
  For the PC, the video signals (analog RGB) from CN8 are input to IN2 of IC4.
  The input video signals are converted into digital signals and then sent to IC25.

- **IC310 (TLC5733A)**
  This IC is a 3-channel, 8-bit, 20 MSPS A/D converter.
  It is used for the sub-channel of the video signals input to the I/F board in the 2-screen mode.
  The video signals (analog YCbCr) from CN6 are input to IC310.
  The video signals input to this IC are converted into digital signals and then sent to IC25.

- **IC25 (IX3434CE)**
  This IC performs the I/P conversion and scaling to match the digitalized video with the output resolution, and also the data conversion.
  It has two input lines, V0 and V1. The V0 line is used to process the RGB, composite, and skirt signals input to the 480i and 580i components for the sub-channel in the 2-screen mode. The V1 line is used to process all the signals as well as V1 for the main channel in the 1-screen and 2-screen modes.
  The IC25 detects what resolution is input from the input synchronizing signal; creates H synchronization in accordance with the frequency division ratio; creates the clamp signal in accordance with the input synchronizing signal; and performs the data matrix conversion.
  The video signals input to this IC is sent to IC413.

- **IC413 (SiI168)**
  This IC is a panel link transmitter.
  It converts the 8-bit RGB video data output from IC25 into the differential TMDS signals and then digitally transmits the converted signals to the monitor.
  The TMDS signals are transmitted at the frequency 10 times higher than the clock frequency.

- **IC1 (IX3270CE)**
  This IC is a 1-chip RISC microprocessor.
  It performs communication with the monitor and operates the system.
  The IC1 also controls each IC in the media receiver and partially manages the power source.

- **IC405 (uPD4721)**
  This IC is an RS-232 line driver receiver conforming to the EIA/TIA-232-E standard.
  The IC405, when connected to a PC, allows for externally controlling the system.
  It is also applicable for upgrading IC1.

- **Description of Main ICs on Company P's PDP Destined for Europe**

- **IC1301 (CXA2069Q)**
  This IC is a 7-input, 3-output selector.
  The video signals other than those for the PC and components, which have been input from each input connector and the tuner, and all the audio signals are sent to the IC1301 and then selected.
  Output 1 is used internally and output 3 in the monitor output.
  When the S video input is output to the monitor, Y and C signals are mixed in this IC.
  The video signals sent to the IC1301 are then input to the YC separation circuits, IC405 (main) and IC402 (sub).
  The audio signals are input to the I/F board via IC2501 (sound processor).

- **IC1401 (MM1519XQ)**
  This IC is a 4-input, 8-output video selector for component input.
  The AV3 component input, AV1, RGB input, and Teletext RGB signals are input to the IC1401. The output signals go to the main, sub, and component channels.

- **IC1601 (SDA5550M).**
  This IC is a microcomputer for Teletext.
  Video signals are input to the IC1601, which then decodes the Teletex data and outputs it as RGB data.

- **IC2501 (IX3371CE)**
  This IC is used to decode audio signals.
  It serves as both the S IF decoder and the selector for the input audio data.

- **IC801/IC802 (TB1274AF)**
  This IC synchronizes video and chroma signals for PAL/NTSC/SECAM color televisions.
  Its video circuit includes a high-performance image quality compensation circuit and its chroma circuit a PAL/NTSC/SECAM automatic selection circuit. The M/N-PAL clock signals at 4.43 and 8.58 MHz are internally generated for color demodulation.
  The PAL/SECAM demodulation circuit uses a base band signal processing system with built-in IH DL and is therefore adjustment-free.
  The IC801/IC802 has 4 lines for YC signal input, 2 lines for RGB signal input, and 2 lines for color difference signal input. It receives color different signals for the main and sub channels from IC405 (main), IC402 (sub), and IC1401 in the former stage, and provides 1 line for color difference signal output.

- **IC803 (CXA2101Q)**
  This IC consists of a base band signal processing section for color different input, an RGB signal processing section, and a 4-line video switch (including HV synchronizing signal processing).
  Input selection is performed by INPUT-SEL (HC BUS). YcbCx, HD YphPr, GBR and their respective HV synchronizing signals are input to each line.
  As the multi-scanning compliance range, a horizontal scanning frequency of 15~60 kHz can be input.

- **IC1901 (IX3566CE)**
  This IC is FPGA for the synchronizing system.
  It creates sand castle pulses for IC803 and generates horizontal blanking signals.
- **IC604 (TA1318N)**
  This IC synchronizes TV component signals.
  The IC804 incorporates the necessary functions for measuring the frequency of input signals and synchronous replay into a single chip, and is applicable for horizontal synchronous replay (15.75, 31.5, 33.75, and 45 kHz) and vertical synchronous replay (525I, 525P, 625I, 750P, 1125I, 1125P, PAL 100 Hz, and NTSC 120 Hz).

- **IC405/IC402 (CXD2064Q)**
  This IC is a comb filter in the applicable field for both the NTSC and PAL systems. It performs the Y/C separation of the main and sub channel video signals that have been output from IC1801.

- **IC407/IC404 (ML6428C1)**
  This IC is a 6.7 MHz low-pass filter.

- **IC810/IC804 (IX3473CE)**
  This IC is a 6.7 MHz low-pass filter incorporating a 6 dB amplifier.

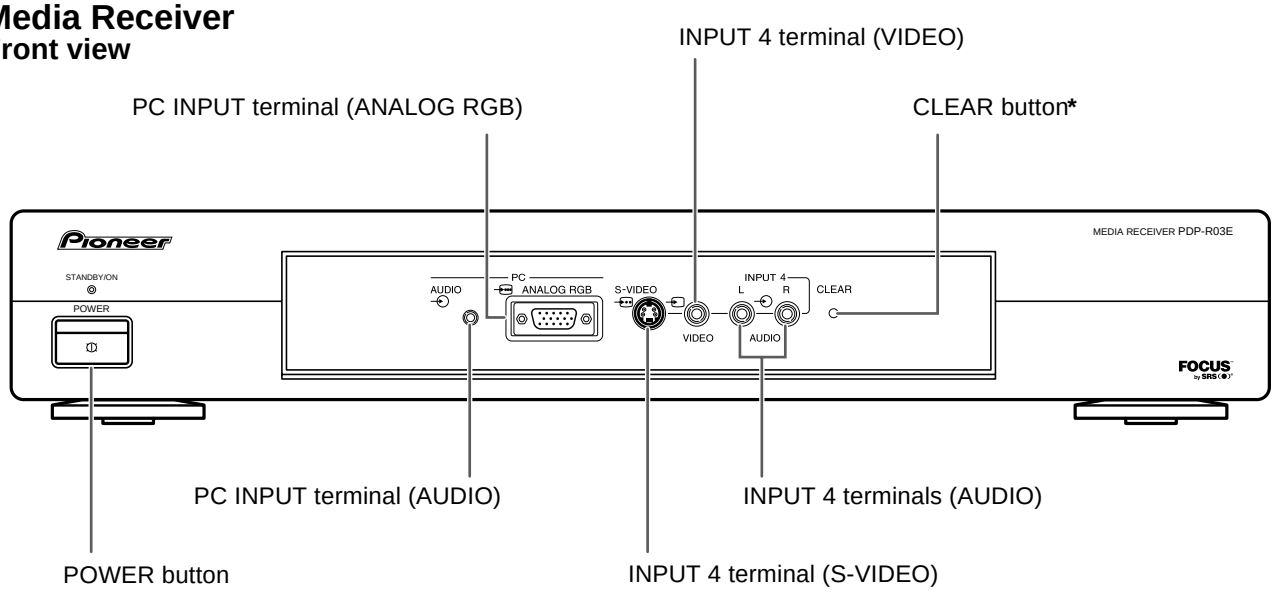
- **IC811 (IX3474CE)**
  This IC is a 80 MHz low-pass filter incorporating a 6 dB amplifier.

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

Media Receiver

Front view



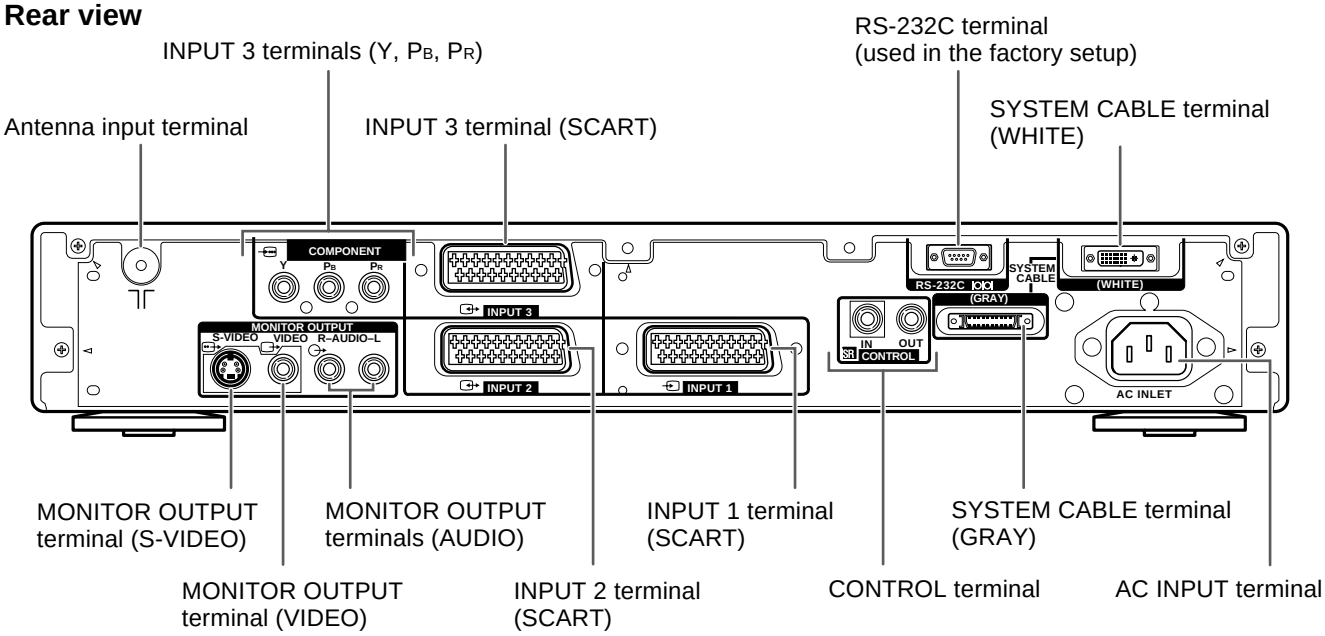
If you're having problems operating the Media Receiver and want to return to normal screen, even when it stays on (the indicator lights green), press **CLEAR** on the Media Receiver. Pressing **CLEAR** resets the System as shown below.

- AV SELECTION resets to STANDARD
- TV channel resets to channel 1
- Multiscreen resets to normal
- Audio setting initialises
- SRS resets to Off.
- Image position is initialises

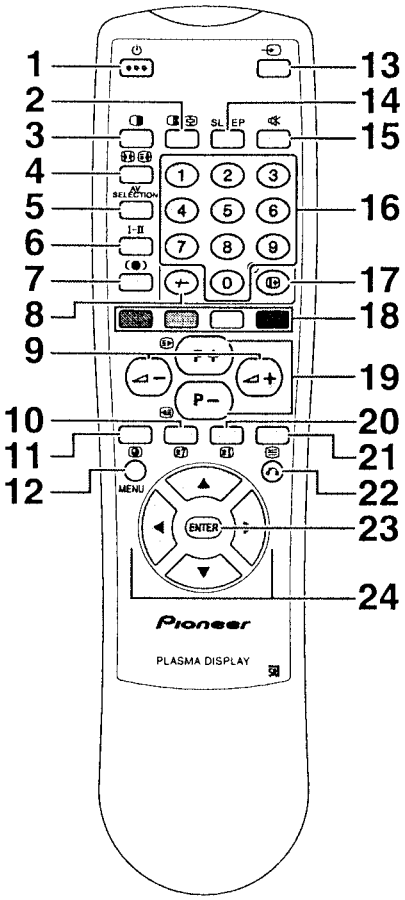
NOTE

- Pressing **CLEAR** will not work if the System is in standby mode but the indicator lights red.
- Pressing **CLEAR** will not delete channel preset or password. See initialising factory preset settings when you know your password. See initialising factory preset values when you have forgotten your password.

Rear view



Remote control unit



NOTE

- When using the remote control unit, point it at the Plasma Display.

1 ⏻
Switch off the power.

2
TV/External input mode: Change the still image mode.
TELETEXT mode: Freeze a multi-page on screen while other pages are automatically updated. Press again to return to the normal image.

3
Set the dual picture mode. Press again to return to the normal image.

4
TV/External input mode: Change the wide image mode.
TELETEXT mode: Setting the area of magnification. (full/upper half/lower half)

5 **AV SELECTION**
Select an audio or video setting. (AV MODE: STANDARD, DYNAMIC, MOVIE, GAME, USER), (PC MODE: STANDARD, USER)

6 **I-II**
Set the sound multiplex mode.

7 **(●)**
Set SRS, FOCUS Sound System.

8 **-/--**
Select the two digit mode.

9 **–/+**
Set the volume.

10
TELETEXT mode: Display hidden characters.

11
TELETEXT mode: Change the picture mode for sub-page selecting.

12 **MENU**
Display the Menu screen.

13
Select an input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, PC)

14 **SLEEP**
Set the OFF timer.

15
Mute the sound.

16 **0 – 9**
Switch on the power.
TV/External input mode: Set the channel information.
TELETEXT mode: Set the page.

17
Display the channel information.

18 **Colour (RED/GREEN/YELLOW/BLUE)**
TELETEXT mode: Select the page.

19 **P+/P–**
TV/External input mode: Select the channel.
TELETEXT mode: Select the page.

20
TELETEXT mode: Display an index page for CEEFAX/FLOF information. TOP OVER VIEW for TOP programme.

21
Select the TELETEXT mode. (all TV image, all TEXT image, TV/TEXT image)

22
MENU mode: Return to the previous menu screen.

23 **ENTER**
Execute a command.

24 **▲/▼/◀/▶**
Select a desired item on the setting screen.
Move the picture on the screen.

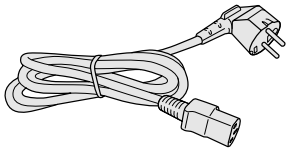
8.2 SPECIFICATIONS

Item			Media Receiver, Model:PDP-R03E
Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
TV Function	Receiving System		B/G, D/K, I, L/L'
	Tuner	VHF/UHF	E2–E69ch, F2–F10ch, I21–I69ch, IR A–IR Jch
		CATV	Hyper-band, S1–S41ch
	Auto Channel Preset		99 ch, Auto Preset, Auto Label, Auto Sort
	STEREO		NICAM/A2
Terminals	Rear	INPUT 1	SCART (AV in, RGB in, TV out)
		INPUT 2	SCART (AV in/out, S-VIDEO in, AV Link)
		INPUT 3	SCART (AV in/out, S-VIDEO in, RGB in), Component
		Antenna	75Ω Din Type for VHF/UHF in
	Front	INPUT 4	S-VIDEO, AV in
		PC	15 Pin mini D-Sub, Audio in
Monitor Out Terminal		Rear	Audio (Variable, Fixed), S-VIDEO out, AV out
Power Requirement			AC 220–240 V, 50/60 Hz, 40 W (0.8 W Standby)
Dimensions			420 (W), 70 (H), 330 (D) mm
Weight			4.4 kg
Accessories			Power Cord, Remote control unit, Two AA size batteries, System Cable, Two Operating Instructions

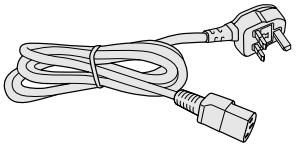
• Design and specifications are subject to change without notice.

● **Accessories**

Power cord (QACCBA005WJZZ, QACCVA002WJZZ)



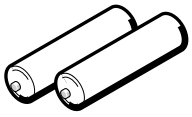
(For Europe, except U.K. and Eire)



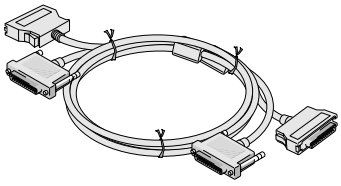
(For U.K., and Eire)



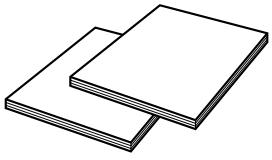
Remote control unit
(RRMCG1677CESA)



Two AA size batteries
(Alkaline battery)



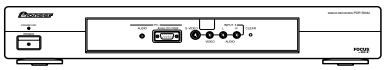
System cable
(QCNW-6085CEZZ)



Two operating instructions
(TINS-7495CEZZ, TINS-7597CEZZ)

Pioneer sound.vision.soul

Service Manual



PDP-R03U

ORDER NO.
ARP3113

MEDIA RECEIVER

PDP-R03U

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
PDP-R03U	KUC	AC120V	

Please connect it to the PLASMA DISPLAY PDP-503PU or PDP-433PU, for adjustment and operation inspection.

Component	System	Service Manual	Remarks
PLASMA DISPLAY SYSTEM	PDP-5030HD	——	
PLASMA DISPLAY	PDP-503PU	ARP3107, ARP3108	
MEDIA RECEIVER	PDP-R03U	ARP3113	This manual

Component	System	Service Manual	Remarks
PLASMA DISPLAY SYSTEM	PDP-4330HD	——	
PLASMA DISPLAY	PDP-433PU	ARP3111, ARP3112	
MEDIA RECEIVER	PDP-R03U	ARP3113	This manual



For details, refer to "Important symbols for good services".

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PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
ⓒ**PIONEER CORPORATION 2002**
T-ZZK APR. 2002.printed in Japan

SAFTY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

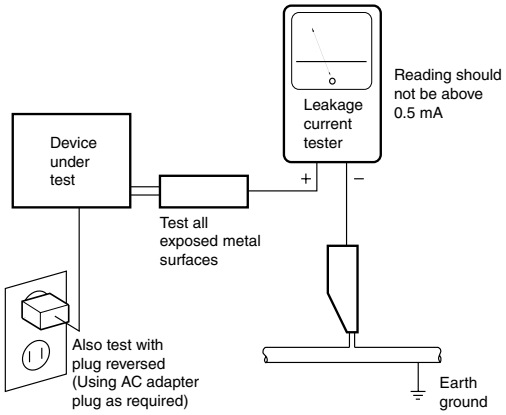
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

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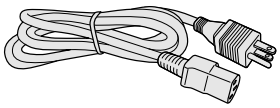
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1. SPECIFICATIONS

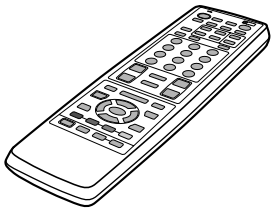
Item			Media Receiver, Model: PDP-R03U
Reception System			American TV standard NTSC system
TV Function	Circuit type		Video signal detection PLL full synchr onous detection, PLL digital synthesizer system
	Tuner	VHF/UHF	VHF 2–13ch, UHF 14–69ch
		CATV	1–125ch
	Audio multiplex		BTSC system
Terminals	Rear	INPUT 1	S-VIDEO in, AV in, COMPONENT in
		INPUT 2	S-VIDEO in, AV in
		INPUT 3	S-VIDEO in, AV in, COMPONENT in, RGB in
		Antenna	75 Ω UNBAL, F Type for VHF/UHF/CATV in
	Front	INPUT 4	S-VIDEO, AV in
		PC	15 Pin mini D-Sub, Audio in
Monitor Out Terminal		Rear	S-VIDEO out, AV out, Audio (Variable, Fixed)
OSD Language			English/French/Spanish
Other Features			Picture & Picture, Still image, Dual Tuner System
Power Requirement			120 V AC, 60 Hz, 40 W (0.2 W Standby)
Dimensions			420 (W) × 70 (H) × 330 (D) mm (16 $^{9}/_{16}$ (W) × 2 $^{25}/_{32}$ (H) × 13 (D) inch)
Weight			4.4 kg (9.7 lbs.)
Accessories			Power cord, Remote control unit, Two AA size batteries, System cable, Operating instruction

- Design and specifications ar e subject to change without notice.

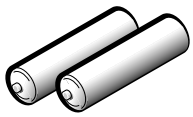
• accessories



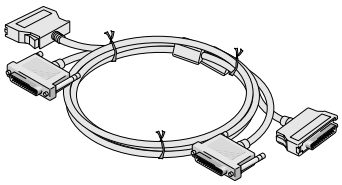
Power cord
(QACCDA007WJPZ)



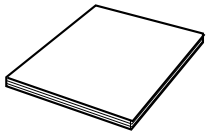
Remote control unit
(RRMCG1679CESA)



Two AA size batteries
(Alkaline battery)



System cable
(QCNW-6117CEZZ)

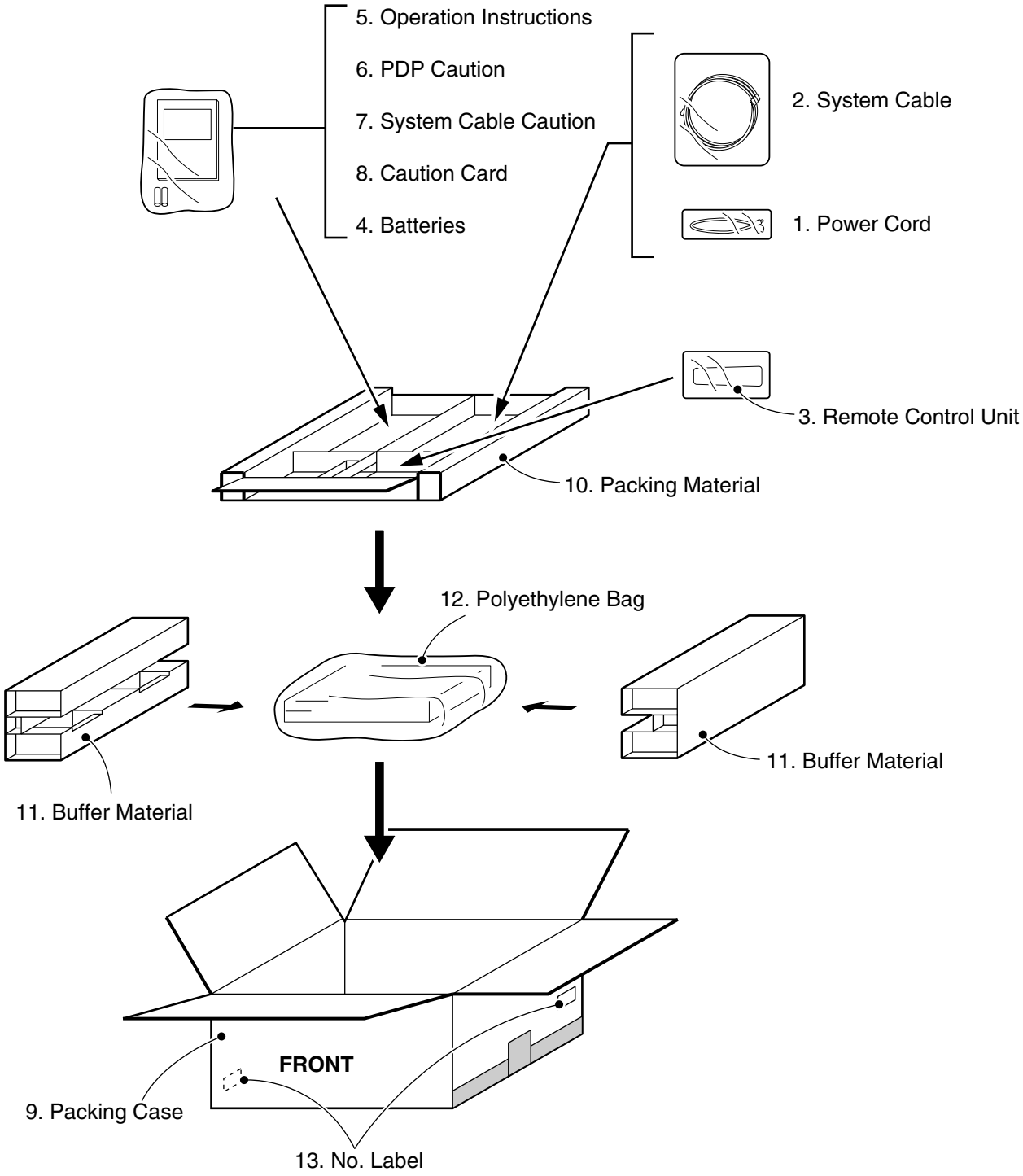


Operating instruction
(TINS-7552CEZZ)

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

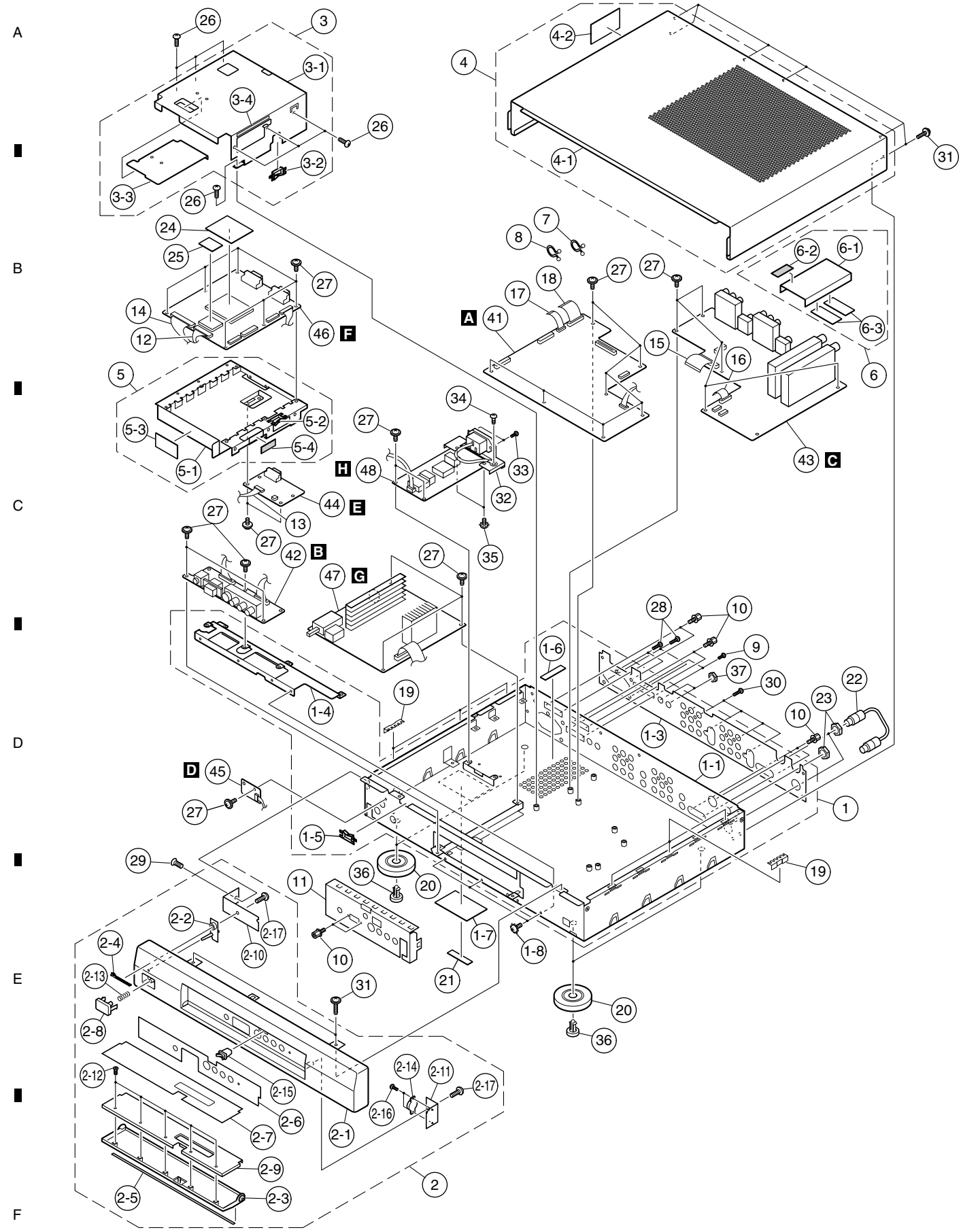
2.1 PACKING



PACKING parts List

Mark	No.	Description	Part No.
⚠	1	Power Cord	QACCDA007WJPZ
	2	System Cable	QCNW-6117CEZZ
	3	Remote Control Unit	RRMCG1679CESA
NSP	4	Battery (AA)	••••••
	5	Operation Instructions (English/French/Spanish)	TINS-7552CEZZ
	6	PDP Caution	TCAUH1223CEZZ
	7	System Cable Caution	TCAUH1227CEZZ
	8	Caution Card	TCAUH1231CEZZ
	9	Packing Case	SPAKC5648CEZZ
	10	Buffer Material	SPAKXA001CEZZ
	11	Packing Material	SPAKF0515CEZZ
	12	Polyethylene Bag	SSAKH0173CEZZ
	13	No Label	TLABK0016CEZZ

2.2 EXTERIOR SECTION



EXTERIOR SECTION parts List

Mark	No.	Description	Part No.
	1	Bottom Cabinet Assy	CCABA3103CE01
NSP	1-1	Bottom Cabinet	• • • • • •
	1-3	Terminal Indicator	HINDP5928CESA
	1-4	Fixing Metal	LANGT9035CEFW
	1-5	Holder	LHLDW1021GE00
	1-6	Gasket	QEARZA007WJZZ
	1-7	Model Label	TLABM4302CEZZ
	1-8	Screw	XBPSD30P06R00
	2	Front Panel Assy	CWAKP1474CE01
NSP	2-1	Front Panel	• • • • • •
	2-2	LED Cover	GCOVA2015CEKA
	2-3	Door	GDORF3026CEKA
	2-4	Pioneer Badge	HBDGE3130CESA
	2-5	Decoration Plate	HDECP0171CESA
	2-6	Control Indicator	HINDP5932CESA
	2-7	Door Indicator	HINDP5852CESA
	2-8	Power Button	JBTN-2073CEKA
	2-9	Fixing Metal(Door)	LANGF9655CESA
	2-10	Fixing Metal	LANGF9660CEFW
	2-11	Fixing Metal(Damper)	LANGT9040CEFW
	2-12	Screw	LX-HZ3111CEFN
	2-13	Spring	MSPRC0061CEFW
	2-14	Damper	PDMPF1009CEZZ
	2-15	Ratch	PKAI-0004GEZZ
	2-16	Screw	XBPSD20P05000
	2-17	Screw	XEBSD30P08000
	3	Shield Assy	CSLDM4688CE01
NSP	3-1	Shield	• • • • • •
	3-2	Holder	LHLDW1021GE00
	3-3	Heat Sink	PRDAR1567CEFW
	3-4	Spacer	PSPAH0720CEZZ
	4	Top Cabinet Assy	CCABB3078CE01
NSP	4-1	Top Cabinet	• • • • • •
	4-2	Caution Label	TCAUHA001WJZZ
	5	Fixing Metal Assy	CANGT9033CE01
NSP	5-1	Fixing Metal	• • • • • •
	5-2	Holder	LHLDW1021GE00
	5-3	Shield	PSLDM0152CEZZ
	5-4	Spacer	PSPAH0721CEZZ
	6	Ground-Part Assy	CANGTA001WJ01
NSP	6-1	Ground-Part	• • • • • •
	6-2	Spacer	PMLT-A001WJZZ
	6-3	Gasket	QEARZA010WJZZ
	7	Holder	LHLDW1009CEZZ
	8	Holder	LHLDW1060CEZZ
	9	Screw	LX-BZ3434CEFN
	10	Shaft	NSFTZ0134CEFW
	11	Shield	PSLDM4686CEFW

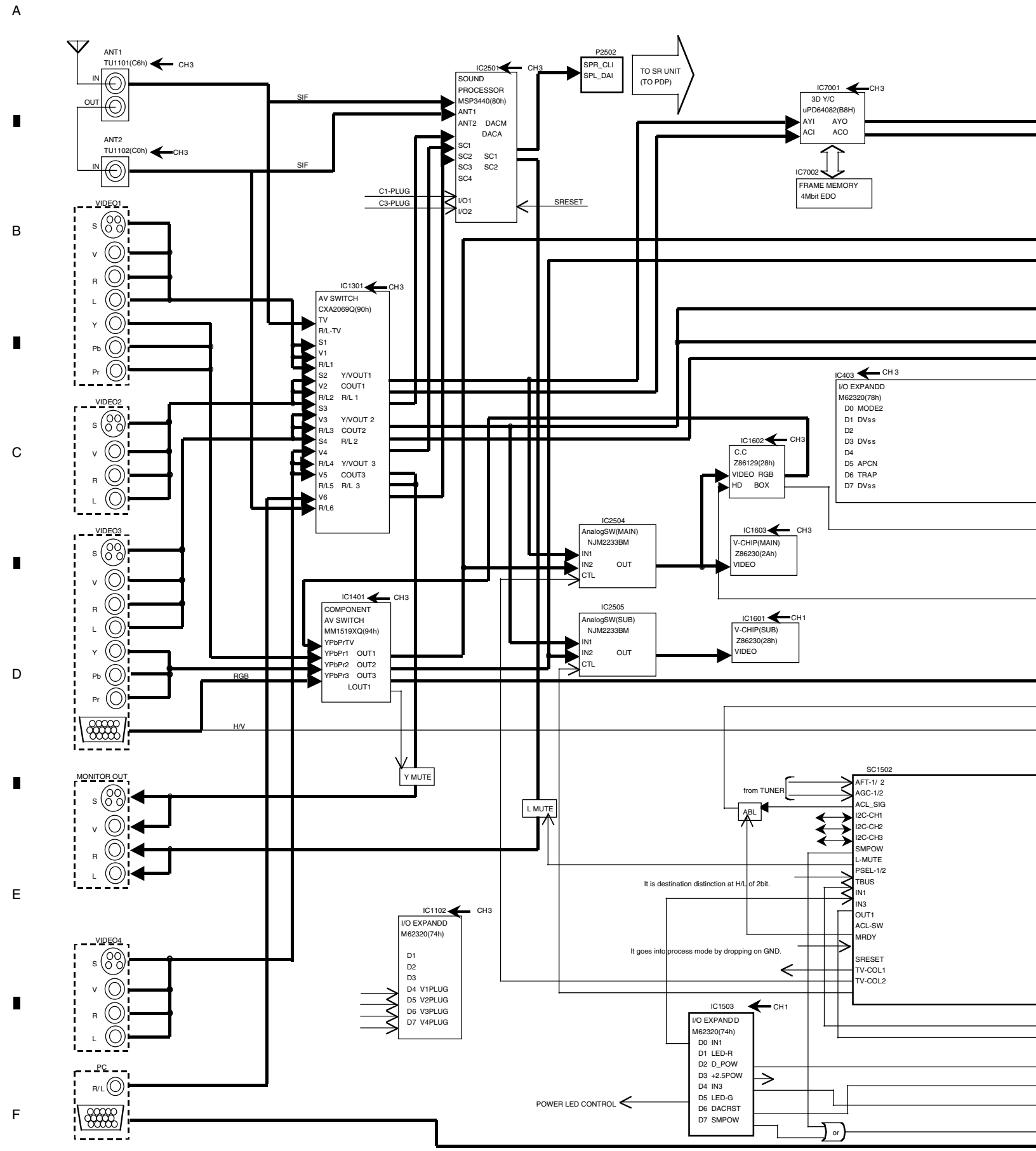
Mark	No.	Description	Part No.
	12	Connecting Cord(Front-PC Boad)	QCNW-6074CEZZ
	13	Connecting Cord(SR-PC Boad)	QCNW-6078CEZZ
	14	Connecting Cord(main-PC Boad)	QCNW-6080CEZZ
	15	FFC(Main-AV)	QCNW-6081CEZZ
	16	FFC(Main-AV)	QCNW-6082CEZZ
	17	FFC(Main-PB_BD))	QCNW-6083CEZZ
	18	FFC(Main-PB_BD))	QCNW-6084CEZZ
	19	Ground-Part(Cabi)	QEARZ0056CEFW
	20	Leg	GLEGP9133CESA
	21	Serial No. Label	TLABN0411CEZZ
	22	RF Cable	QCNW-A342WJZZ
	23	Nut,x3	LX-NZ3047GEZZ
	24	Spacer	PSPAZ0464CEKZ
	25	Spacer	PSPAZ0465CEKZ
	26	Screw,x7	XBBSN30P06000
	27	Screw,x30	XBPSD30P06JS0
	28	Screw,x4	XBPSN30P06000
	29	Screw	XBSSD30P06000
	30	Screw,x4	XEBSF30P08000
	31	Screw,x8	XJPSN30P08XS0
	32	AC Inlet Angle	LANGK3000SNEZ
	33	Screw, x2	XBSSF30P06000
	34	Screw	XBPBN40P06K00
	35	Screw, x2	LX-BZ1001SNEZ
	36	Screw,x4	LX-LZ1005AEZZ
	37	Nut,x2	LX-NZ3182CEFN
	38	• • • • • •	
	39	• • • • • •	
	40	• • • • • •	
	41	MAIN UNIT	DUNTKA535DE04
	42	FRONT UNIT	DUNTKA617DE01
	43	AV UNIT	DUNTKA616DE01
	44	SR CONNECT UNIT	DUNTKA618DE01
	45	LED UNIT	DUNTKA619DE01
	46	PC I/F UNIT	CPCI-0056CE15
	47	POWER UNIT	RDENC0331CEZZ
	48	EMC UNIT	RDENCA007WJZZ

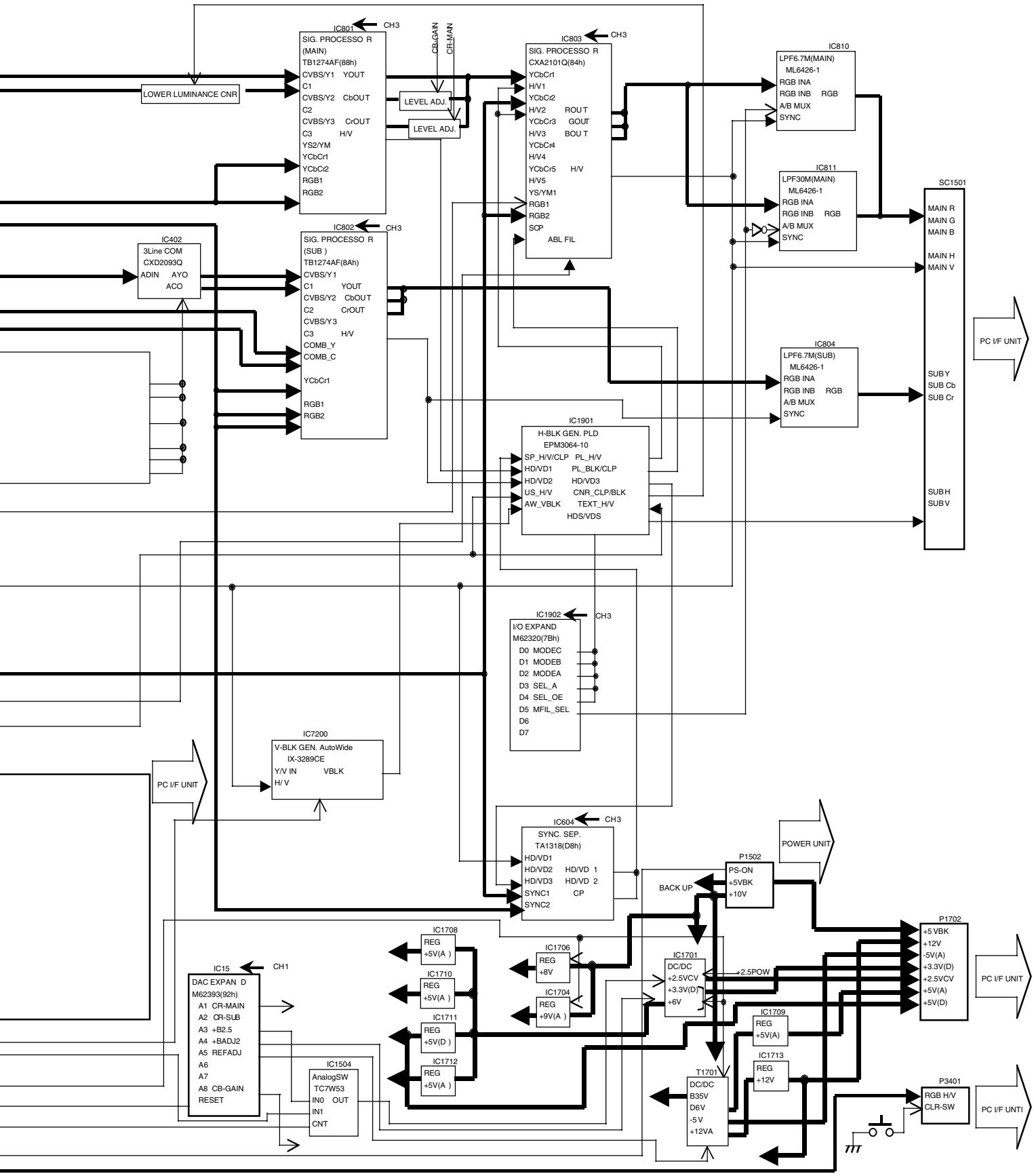
SERVICE JIGS

Connector, 30-pin (PC I/F-MAIN)	QCNW-6099CEZZ	
Connector, 50-pin (PC I/F-MAIN)	QCNW-6100CEZZ	
Connector, 4-pin (SR-AV)	QCNW-6101CEZZ	
Connector, 13-pin (PC I/F-FRONT)	QCNW-6102CEZZ	
Connector, 12-pin (PC I/F-MAIN)	QCNW-6103CEZZ	

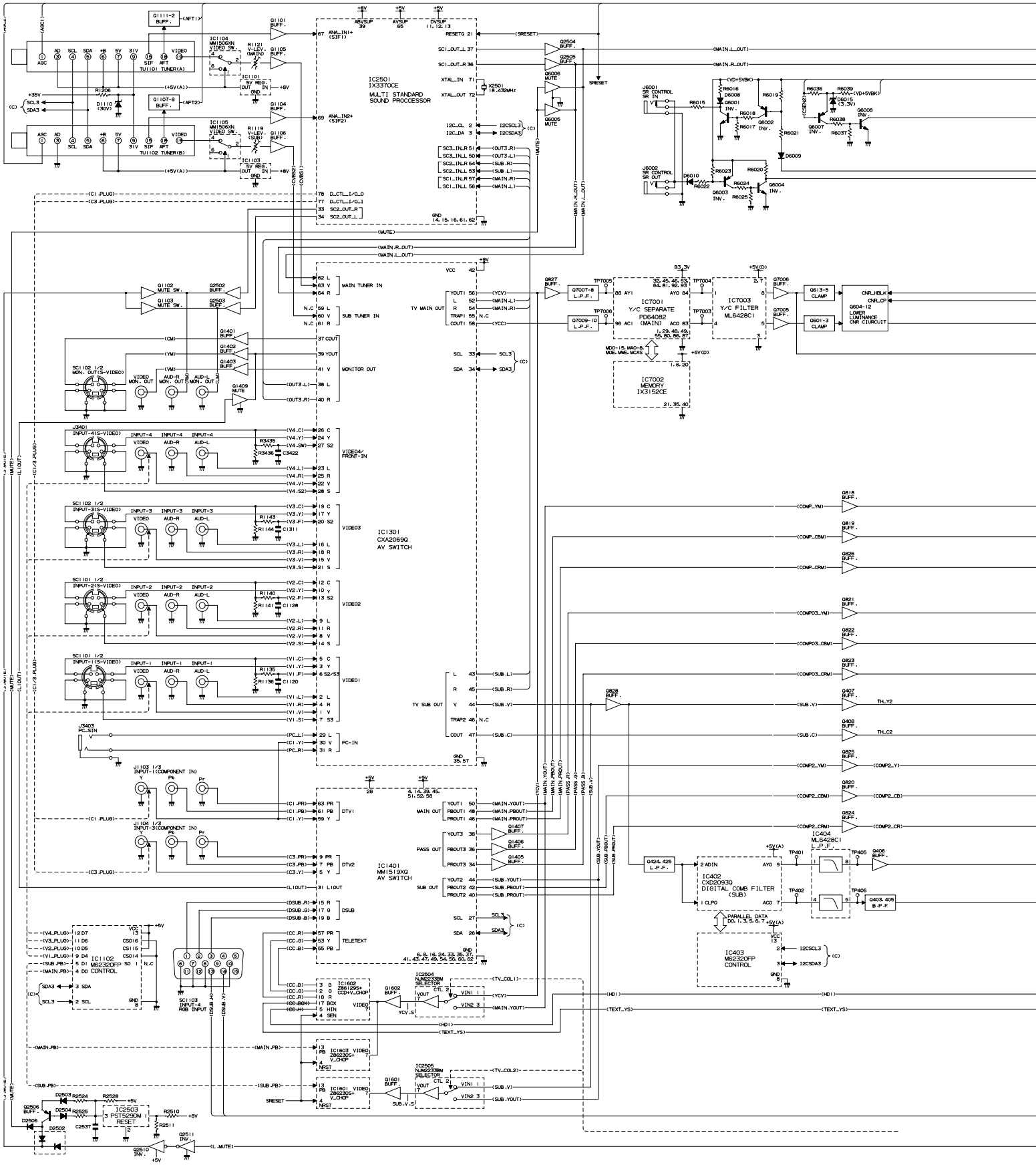
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

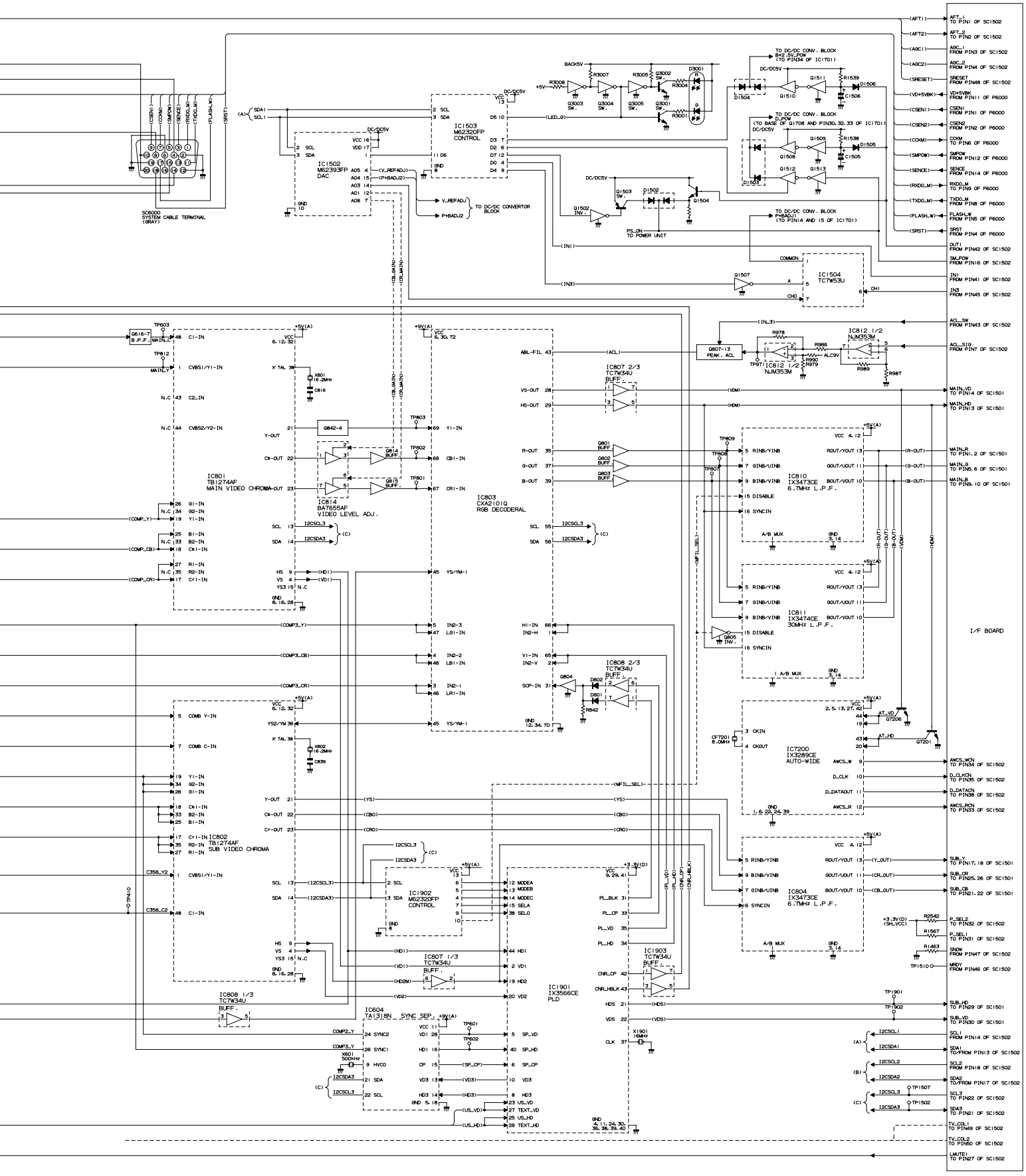
3.1 SYSTEM BLOCK DIAGRAM



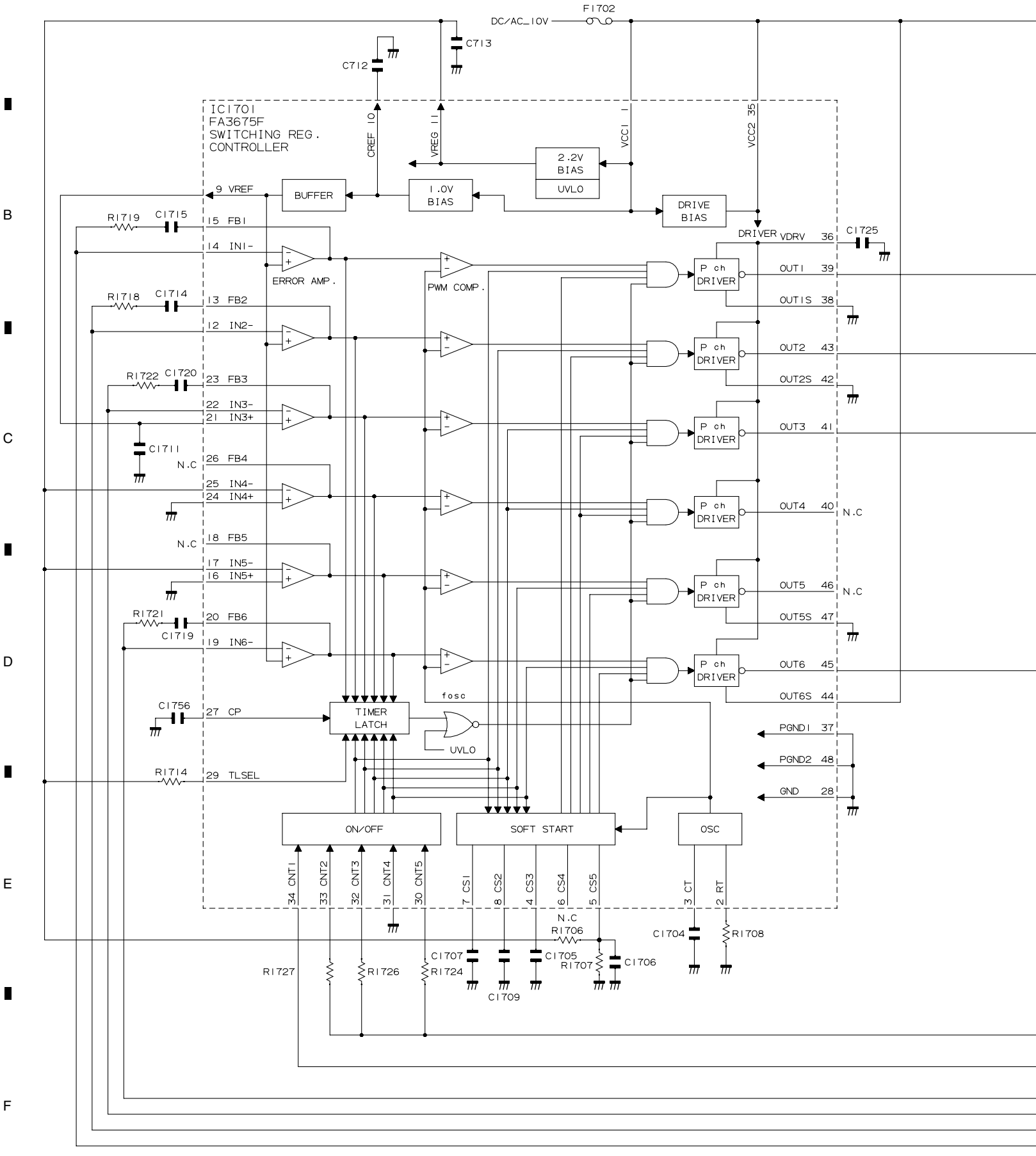

IC801
CH3
SIG. PROCESSO R
(MAIN)
TB1274AF(88h)
CVBS/Y1 YOUT
C1
CVBS/Y2 CbOUT
C2
CVBS/Y3 CrOUT
C3 H/V
YS2/YM
YCbCr1
YCbCr2
RGB1
RGB2
LOWER LUMINANCE CNR
CB-GAIN
CR-MAN
LEVEL ADJ.
LEVEL ADJ.
IC803
CH3
SIG. PROCESSO R
CXA2101Q(84h)
YCbCr1
H/V1
YCbCr2
H/V2 ROU T
YCbCr3 GOUT
H/V3 BOU T
YCbCr4
H/V4
YCbCr5 H/V
H/V5
YS/YM1
RGB1
RGB2
SCP
ABL FIL
IC810
LPF6.7M(MAIN)
ML6426-1
RGB INA
RGB INB RGB
A/B MUX
SYNC
IC811
LPF30M(MAIN)
ML6426-1
RGB INA
RGB INB RGB
A/B MUX
SYNC
SC1501
MAIN R
MAIN G
MAIN B
MAIN H
MAIN V
SUB Y
SUB Cb
SUB Cr
SUB H
SUB V
PC I/F UNIT
IC402
3Line COM
CXD2093Q
ADIN AYO
ACO
IC802
CH3
SIG. PROCESSO R
(SUB)
TB1274AF(8Ah)
CVBS/Y1
C1 YOUT
CVBS/Y2 CbOUT
C2 CrOUT
CVBS/Y3
C3 H/V
COMB_Y
COMB_C
YCbCr1
RGB1
RGB2
IC804
LPF6.7M(SUB)
ML6426-1
RGB INA
RGB INB RGB
A/B MUX
SYNC
IC1901
H-BLK GEN. PLD
EPM3064-10
SP_H/V/CLP PL_H/V
HD/VD1 PL_BLK/CLP
HD/VD2 HD/VD3
US_H/V CNR_CLP/BLK
AW_VBLK TEXT_H/V
HDS/VDS
IC1902
CH3
I/O EXPAND
M62320(7Bh)
D0 MODEC
D1 MODEB
D2 MODEA
D3 SEL_A
D4 SEL_OE
D5 MFIL_SEL
D6
D7
IC7200
V-BLK GEN. AutoWide
IX-3289CE
Y/V IN VBLK
H/ V
PC I/F UNIT
IC604
CH3
SYNC. SEP.
TA1318(D8h)
HD/VD1
HD/VD2 HD/VD 1
HD/VD3 HD/VD 2
SYNC1 CP
SYNC2
POWER UNIT
P1502
PS-ON
+5VBK
+10V
BACK UP
IC1708
REG
+5V(A)
IC1710
REG
+5V(A)
IC1711
REG
+5V(D)
IC1712
REG
+5V(A)
IC1706
REG
+8V
IC1704
REG
+9V(A)
IC1701
DC/DC
+2.5VCV
+3.3V(D)
+6V
+2.5POW
P1702
+5 VBK
+12V
-5V(A)
+3.3V(D)
+2.5VCV
+5V(A)
+5V(D)
PC I/F UNIT
IC1709
REG
+5V(A)
IC1713
REG
+12V
IC15
CH1
DAC EXPAN D
M62393(92h)
A1 CR-MAIN
A2 CR-SUB
A3 +B2.5
A4 +BADJ2
A5 REFADJ
A6
A7
A8 CB-GAIN
RESET
IC1504
AnalogSW
TC7W53
IN0 OUT
IN1
CNT
T1701
DC/DC
B35V
D6V
-5 V
+12VA
P3401
RGB H/V
CLR-SW
PC I/F UNTI

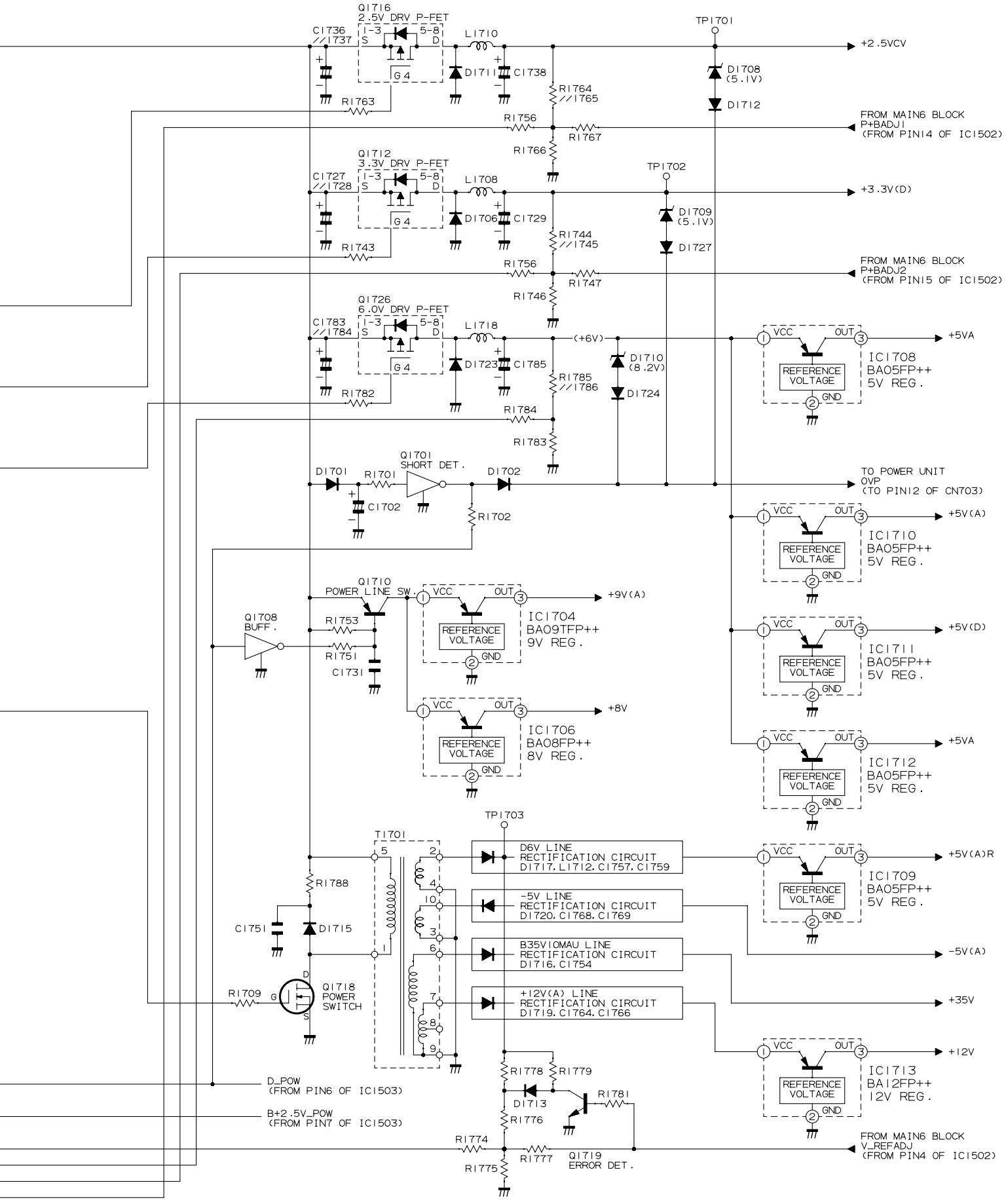
3.2 SIGNAL FLOW BLOCK DIAGRAM



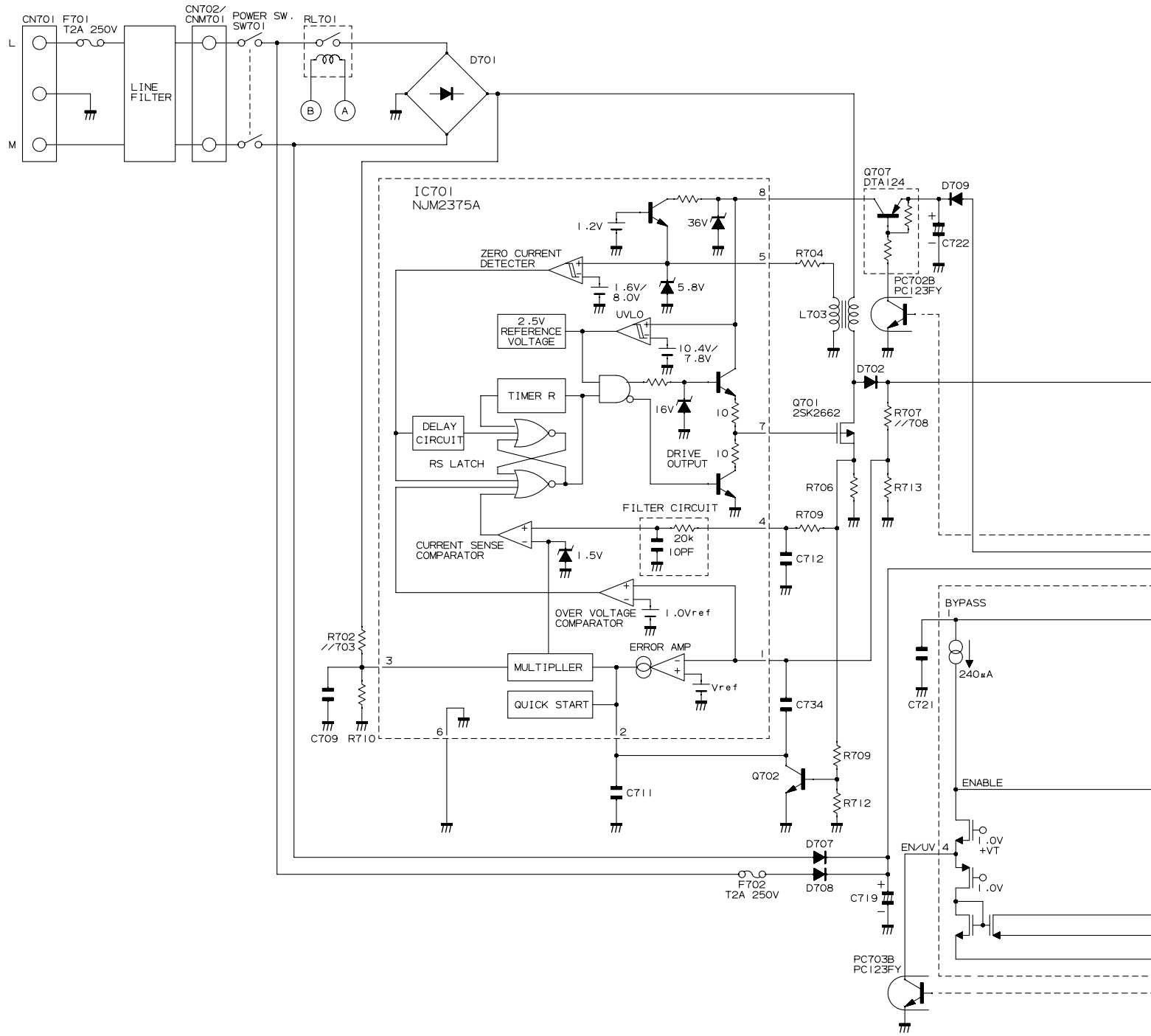


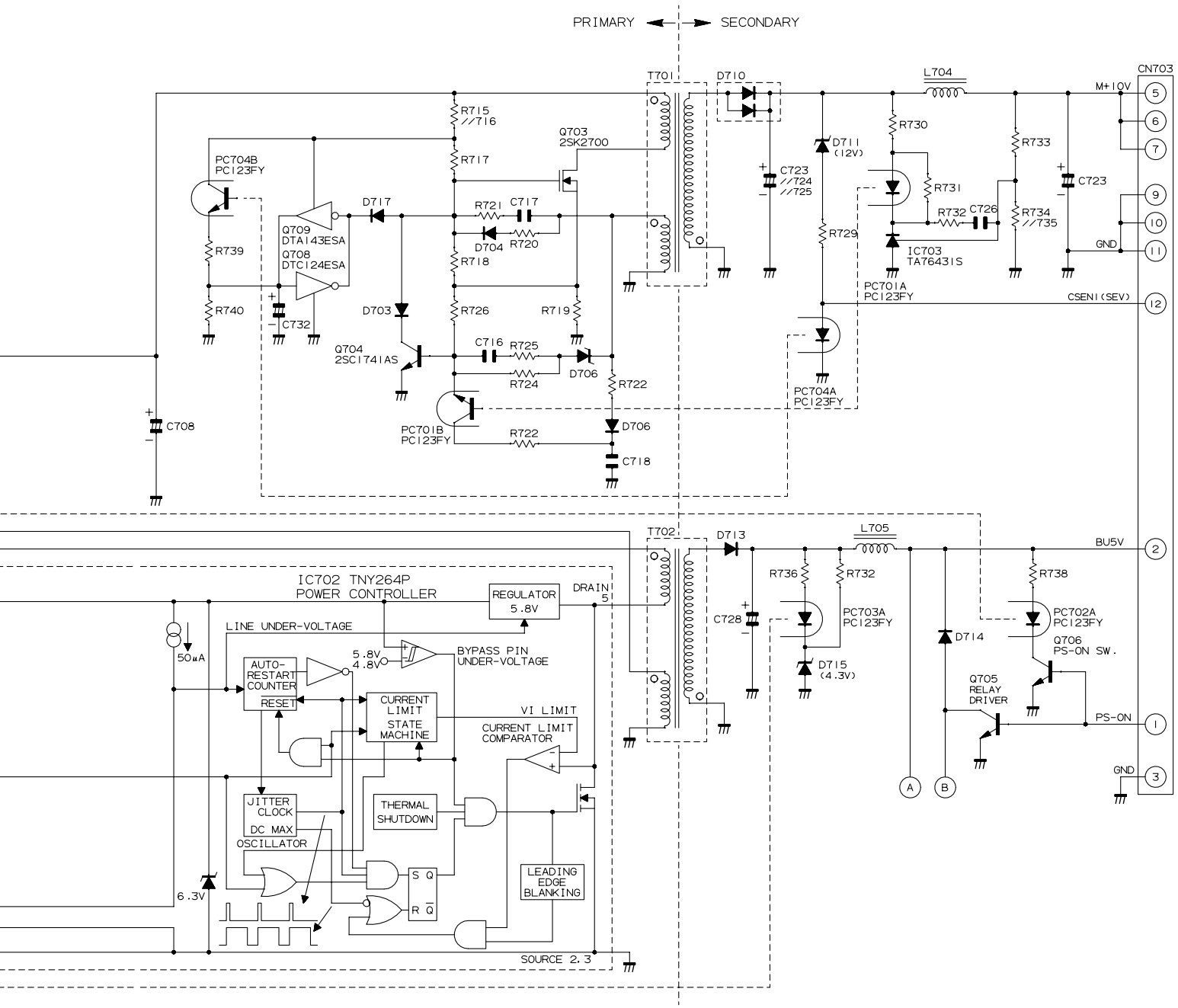
3.3 DC/DC CONVERTER CONNECTION DIAGRAM



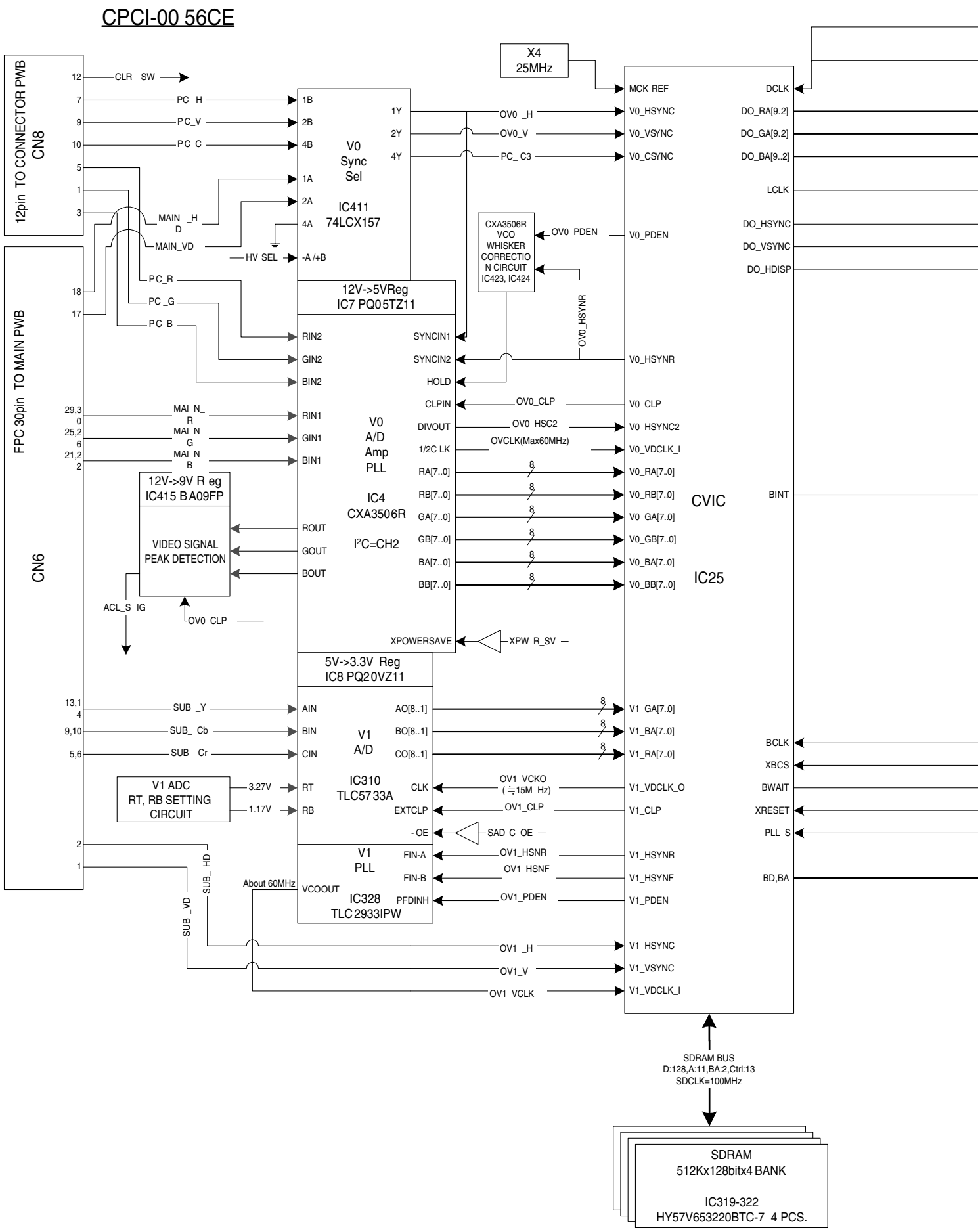

Q1716
2.5V_DRV P-FET
C1736
//1737
L1710
TP1701
+2.5VCV
D1711
C1738
D1708
(5.1V)
D1712
R1763
R1764
//1765
R1756
R1767
FROM MAIN6 BLOCK
P+BADJ1
(FROM PIN14 OF IC1502)
R1766
Q1712
3.3V_DRV P-FET
C1727
//1728
L1708
TP1702
+3.3V(D)
D1706
C1729
D1709
(5.1V)
D1727
R1743
R1744
//1745
R1756
R1747
FROM MAIN6 BLOCK
P+BADJ2
(FROM PIN15 OF IC1502)
R1746
Q1726
6.0V_DRV P-FET
C1783
//1784
L1718
(+6V)
+5VA
D1723
C1785
D1710
(8.2V)
D1724
IC1708
BA05FP++
5V REG.
R1782
R1785
//1786
R1784
R1783
Q1701
SHORT DET.
D1701
R1701
D1702
TO POWER UNIT
OVP
(TO PIN12 OF CN703)
C1702
R1702
+5V(A)
IC1710
BA05FP++
5V REG.
Q1710
POWER LINE SW.
+9V(A)
Q1708
BUFF.
R1753
R1751
C1731
IC1704
BA09TFP++
9V REG.
+5V(D)
IC1711
BA05FP++
5V REG.
+8V
IC1706
BA08FP++
8V REG.
+5VA
IC1712
BA05FP++
5V REG.
TP1703
T1701
D6V LINE
RECTIFICATION CIRCUIT
D1717, L1712, C1757, C1759
+5V(A)R
IC1709
BA05FP++
5V REG.
R1788
-5V LINE
RECTIFICATION CIRCUIT
D1720, C1768, C1769
C1751
D1715
B35V10MAU LINE
RECTIFICATION CIRCUIT
D1716, C1754
-5V(A)
R1709
Q1718
POWER
SWITCH
+12V(A) LINE
RECTIFICATION CIRCUIT
D1719, C1764, C1766
+35V
+12V
IC1713
BA12FP++
12V REG.
R1778
R1779
D1713
R1781
R1776
D_POW
(FROM PIN6 OF IC1503)
B+2.5V_POW
(FROM PIN7 OF IC1503)
R1774
R1777
Q1719
ERROR DET.
R1775
FROM MAIN6 BLOCK
V_REFADJ
(FROM PIN4 OF IC1502)
VCC
OUT
GND
REFERENCE
VOLTAGE

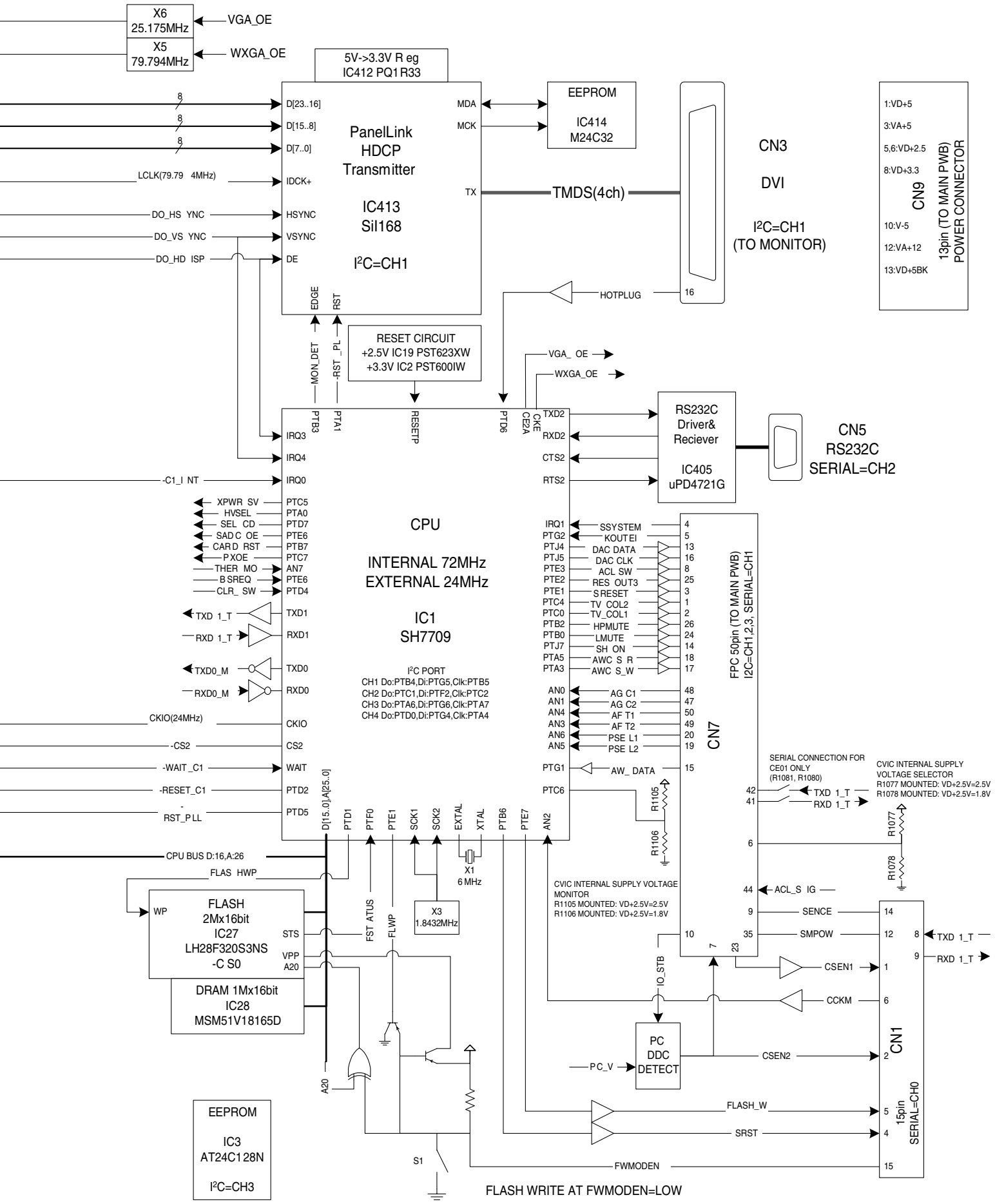
3.4 POWER BLOCK DIAGRAM




PRIMARY
SECONDARY
T701
D710
L704
CN703
M+10V
R715
//716
R717
Q703
2SK2700
PC704B
PC123FY
D717
R721
C717
D704
R720
Q709
DTA143ESA
Q708
DTC124ESA
R739
R740
C732
R718
D703
R726
R719
Q704
2SC1741AS
C716
R725
D706
R724
R722
C708
PC701B
PC123FY
D706
C718
D711
(12V)
C723
//724
//725
R730
R731
R732
C726
R733
R734
//735
C723
R729
IC703
TA7643IS
GND
PC701A
PC123FY
CSENI(SEV)
PC704A
PC123FY
T702
D713
L705
BU5V
IC702 TNY264P
POWER CONTROLLER
REGULATOR
5.8V
DRAIN
5
LINE UNDER-VOLTAGE
50μA
5.8V
4.8V
BYPASS PIN
UNDER-VOLTAGE
AUTO-
RESTART
COUNTER
RESET
CURRENT
LIMIT
STATE
MACHINE
VI LIMIT
CURRENT LIMIT
COMPARATOR
JITTER
CLOCK
DC MAX
OSCILLATOR
THERMAL
SHUTDOWN
6.3V
S Q
R Q
LEADING
EDGE
BLANKING
SOURCE 2.3
C728
R736
R732
PC703A
PC123FY
D715
(4.3V)
D714
R738
PC702A
PC123FY
Q706
PS-ON SW.
Q705
RELAY
DRIVER
PS-ON
GND
A
B

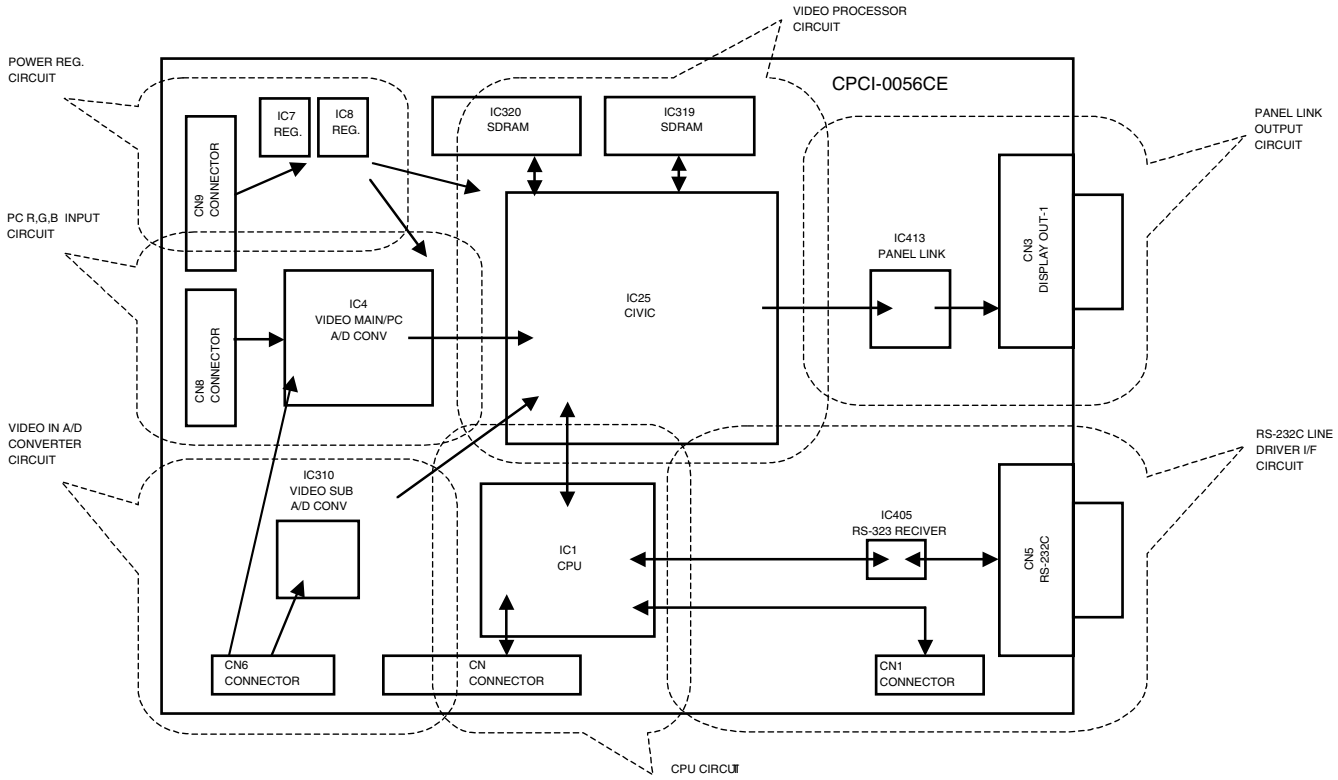
3.5 PC/IF BLOCK DIAGRAM



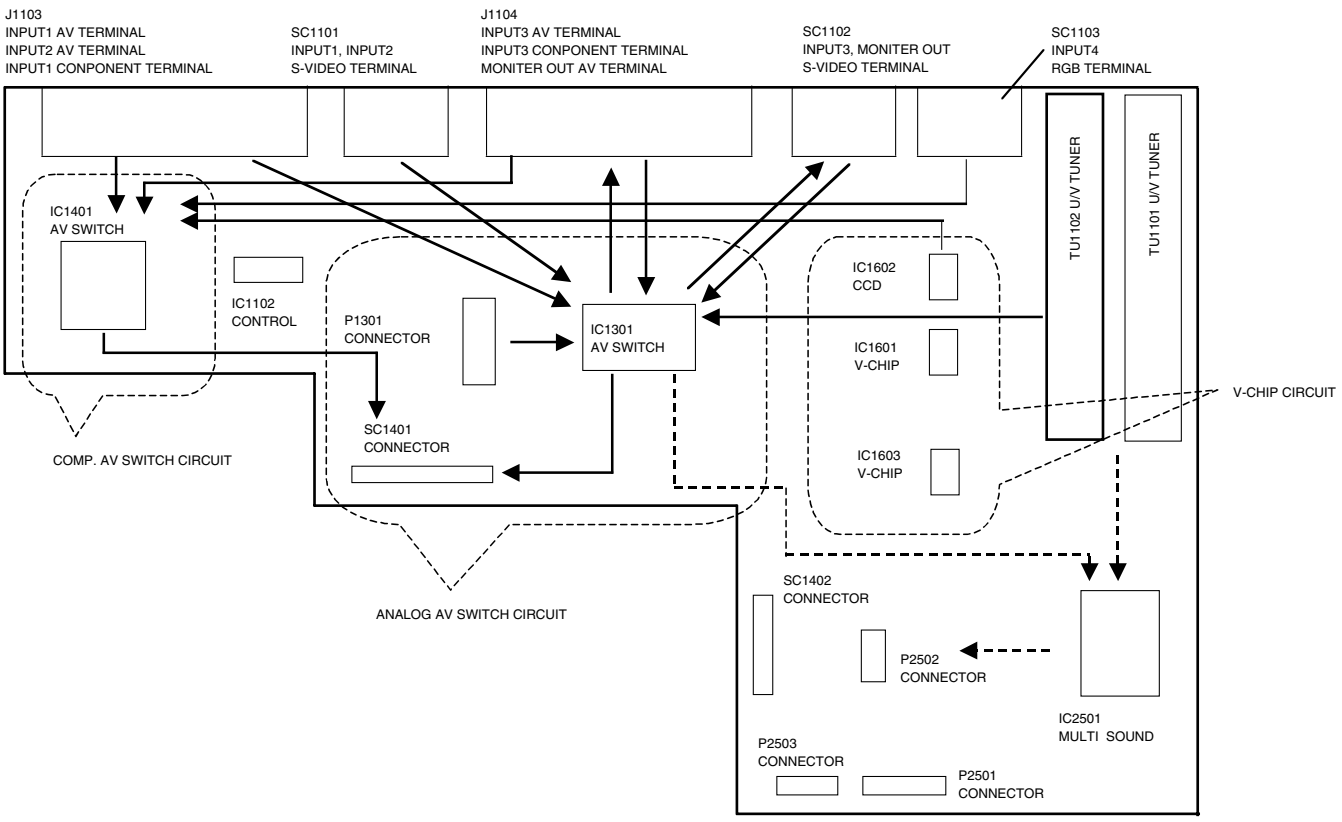

X6
25.175MHz
VGA_OE
X5
79.794MHz
WXGA_OE
5V->3.3V R eg
IC412 PQ1R33
PanelLink
HDCP
Transmitter
IC413
SiI168
I²C=CH1
D[23..16]
D[15..8]
D[7..0]
LCLK(79.79 4MHz)
DO_HS YNC
DO_VS YNC
DO_HD ISP
IDCK+
HSYNC
VSYNC
DE
MDA
MCK
TX
EEPROM
IC414
M24C32
TMDS(4ch)
CN3
DVI
I²C=CH1
(TO MONITOR)
CN9
1:VD+5
3:VA+5
5,6:VD+2.5
8:VD+3.3
10:V-5
12:VA+12
13:VD+5BK
13pin (TO MAIN PWB)
POWER CONNECTOR
HOTPLUG
16
EDGE
RST
MON_DET
-RST_PL
RESET CIRCUIT
+2.5V IC19 PST623XW
+3.3V IC2 PST600IW
VGA_ OE
WXGA_OE
RESETP
PTB3
PTA1
PTD6
CKE
CE2A
TXD2
RXD2
CTS2
RTS2
RS232C
Driver&
Reciever
IC405
uPD4721G
CN5
RS232C
SERIAL=CH2
IRQ3
IRQ4
IRQ0
-C1_I NT
CPU
INTERNAL 72MHz
EXTERNAL 24MHz
IC1
SH7709
XPWR SV
HVSEL
SEL CD
SADC OE
CARD RST
PXOE
THER MO
BSREQ
CLR_ SW
PTC5
PTA0
PTD7
PTE6
PTB7
PTC7
AN7
PTE6
PTD4
TXD1
RXD1
TXD0
RXD0
TXD 1_T
RXD 1_T
TXD0_M
RXD0_M
I²C PORT
CH1 Do:PTB4,Di:PTG5,Clk:PTB5
CH2 Do:PTC1,Di:PTF2,Clk:PTC2
CH3 Do:PTA6,Di:PTG6,Clk:PTA7
CH4 Do:PTD0,Di:PTG4,Clk:PTA4
CKIO(24MHz)
-CS2
-WAIT_C1
-RESET_C1
-
RST_PLL
CKIO
CS2
WAIT
PTD2
PTD5
CPU BUS D:16,A:26
FLAS HWP
D[15..0],A[25..0]
PTD1
PTF0
PTE1
SCK1
SCK2
EXTAL
XTAL
PTB6
PTE7
AN2
X1
6 MHz
X3
1.8432MHz
FST ATUS
FLWP
FLASH
2Mx16bit
IC27
LH28F320S3NS
-C S0
WP
STS
VPP
A20
DRAM 1Mx16bit
IC28
MSM51V18165D
A20
EEPROM
IC3
AT24C128N
I²C=CH3
S1
IRQ1
PTG2
PTJ4
PTJ5
PTE3
PTE2
PTE1
PTC4
PTC0
PTB2
PTB0
PTJ7
PTA5
PTA3
SSYSTEM
KOUTEI
DAC DATA
DAC CLK
ACL SW
RES OUT3
SRESET
TV_COL2
TV_COL1
HPMUTE
LMUTE
SH_ON
AWC S_R
AWC S_W
AN0
AN1
AN4
AN3
AN6
AN5
AG C1
AG C2
AF T1
AF T2
PSE L1
PSE L2
PTG1
AW_ DATA
PTC6
CN7
FPC 50pin (TO MAIN PWB)
I2C=CH1,2,3, SERIAL=CH1
R1105
R1106
R1077
R1078
SERIAL CONNECTION FOR
CE01 ONLY
(R1081, R1080)
CVIC INTERNAL SUPPLY
VOLTAGE SELECTOR
R1077 MOUNTED: VD+2.5V=2.5V
R1078 MOUNTED: VD+2.5V=1.8V
CVIC INTERNAL SUPPLY VOLTAGE
MONITOR
R1105 MOUNTED: VD+2.5V=2.5V
R1106 MOUNTED: VD+2.5V=1.8V
ACL_S IG
SENCE
SMPOW
IO_STB
CSEN1
CCKM
CSEN2
PC_V
PC
DDC
DETECT
CN1
15pin
SERIAL=CH0
FLASH_W
SRST
FWMODEN
FLASH WRITE AT FWMODEN=LOW

3.6 PRINTED WIRING BOARD BLOCK DIAGRAM

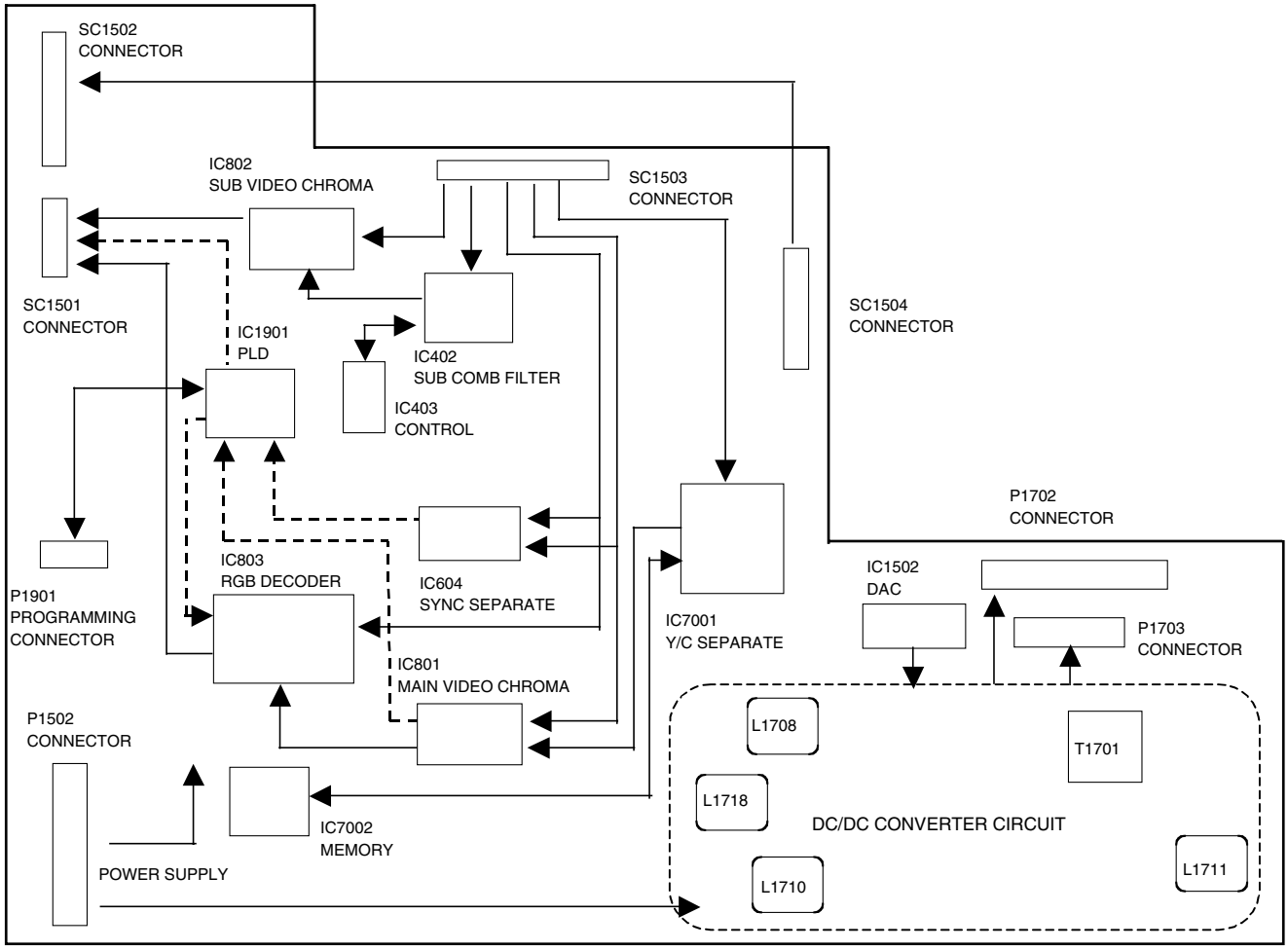
F PC/IF UNIT



C AV UNIT



A MAIN UNIT


SC1502
CONNECTOR
IC802
SUB VIDEO CHROMA
SC1503
CONNECTOR
SC1501
CONNECTOR
IC1901
PLD
IC402
SUB COMB FILTER
IC403
CONTROL
SC1504
CONNECTOR
P1702
CONNECTOR
P1901
PROGRAMMING
CONNECTOR
IC803
RGB DECODER
IC604
SYNC SEPARATE
IC7001
Y/C SEPARATE
IC1502
DAC
P1703
CONNECTOR
IC801
MAIN VIDEO CHROMA
P1502
CONNECTOR
L1708
T1701
L1718
DC/DC CONVERTER CIRCUIT
L1711
L1710
IC7002
MEMORY
POWER SUPPLY

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the color bar signal of color bar generator for service is input to get the normal screen. When the audio is minimized, the voltage value is measured with the 20 k /V tester

WAVEFORM MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the color density, lightness and color hue are set to the center position, and the signal of color bar generator for service is observed to get waveform.
2. ◯▶ indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance " " is omitted. (K=k =1000 , M=M).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid Ⓦ : Cement
   Ⓢ: Oxide Film Ⓣ : Special
   Ⓝ: Metal Coating

CAPACITOR

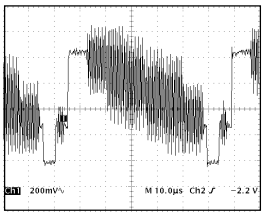
1. All capacitors are mF, unless otherwise noted. (P=pF=mmF).
2. All capacitors are Ceramic type, unless otherwise noted.
   (ML) : Mylar (TA) : Tantalum
   (PF) : Polypro Film (ST) : Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

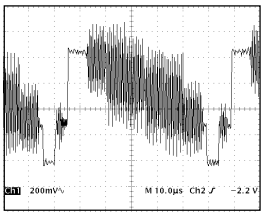
IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH " ⚠ " ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

WAVEFORMS

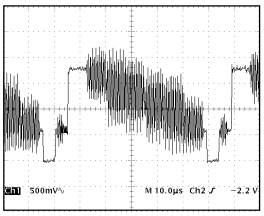
① IC1301 63-pin
V: 200mV/div H: 10µsec/div



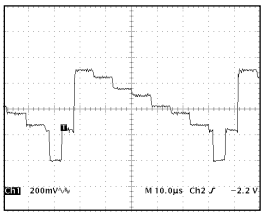
② IC1301 60-pin
V: 200mV/div H: 10µsec/div



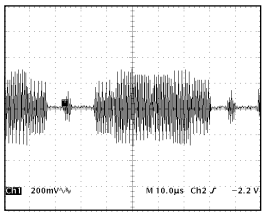
③ IC1301 56-pin
V: 500mV/div H: 10µsec/div



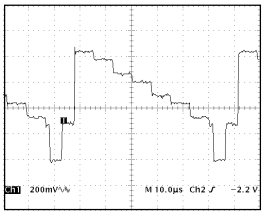
④ TP7004
V: 200mV/div H: 10µsec/div



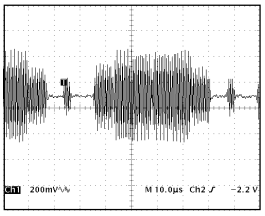
⑤ TP7003
V: 200mV/div H: 10µsec/div



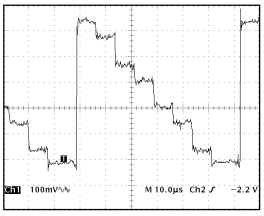
⑥ TP812
V: 200mV/div H: 10µsec/div



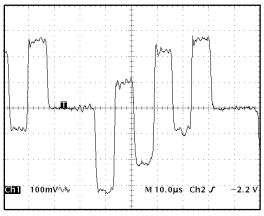
⑦ TP603
V: 200mV/div H: 10µsec/div



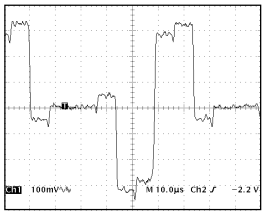
⑧ TP803
V: 100mV/div H: 10µsec/div



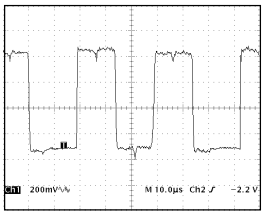
⑨ TP802
V: 100mV/div H: 10µsec/div



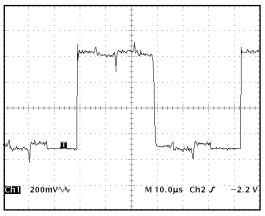
⑩ TP801
V: 100mV/div H: 10µsec/div



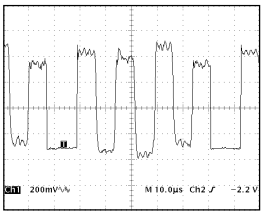
⑪ TP809
V: 200mV/div H: 10µsec/div



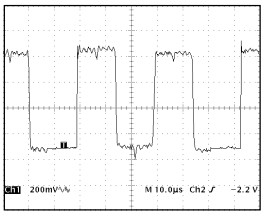
⑫ TP808
V: 200mV/div H: 10µsec/div



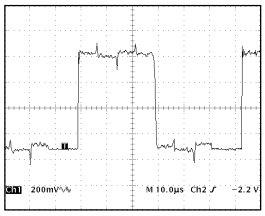
⑬ TP807
V: 200mV/div H: 10µsec/div



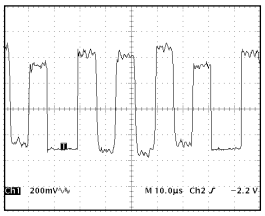
⑭ IC810 13-pin
V: 200mV/div H: 10µsec/div



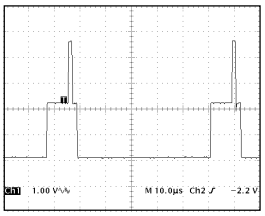
⑮ IC810 11-pin
V: 200mV/div H: 10µsec/div



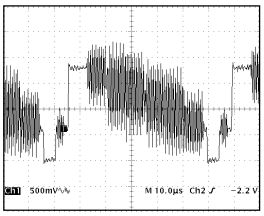
⑯ IC810 10-pin
V: 200mV/div H: 10µsec/div



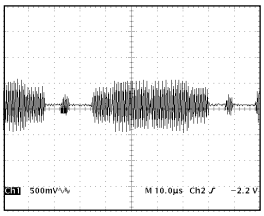
⑰ IC803 31-pin
V: 1V/div H: 10µsec/div



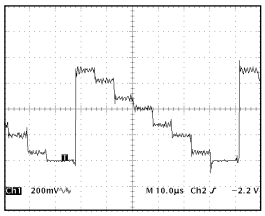
⑱ IC1301 44-pin
V: 500mV/div H: 10µsec/div



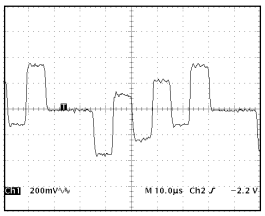
⑲ TP410
V: 500mV/div H: 10µsec/div



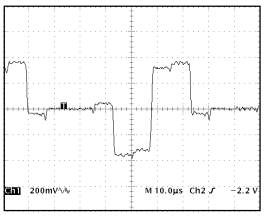
⑳ IC802 21-pin
V: 200mV/div H: 10µsec/div



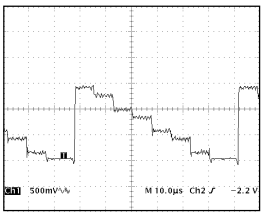
㉑ IC802 22-pin
V: 200mV/div H: 10µsec/div



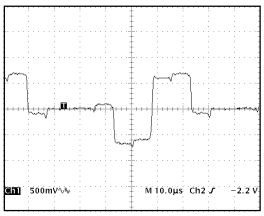
㉒ IC802 23-pin
V: 200mV/div H: 10µsec/div



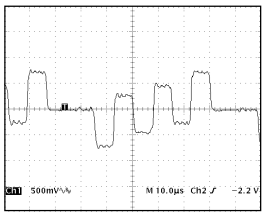
㉓ IC804 13-pin
V: 500mV/div H: 10µsec/div



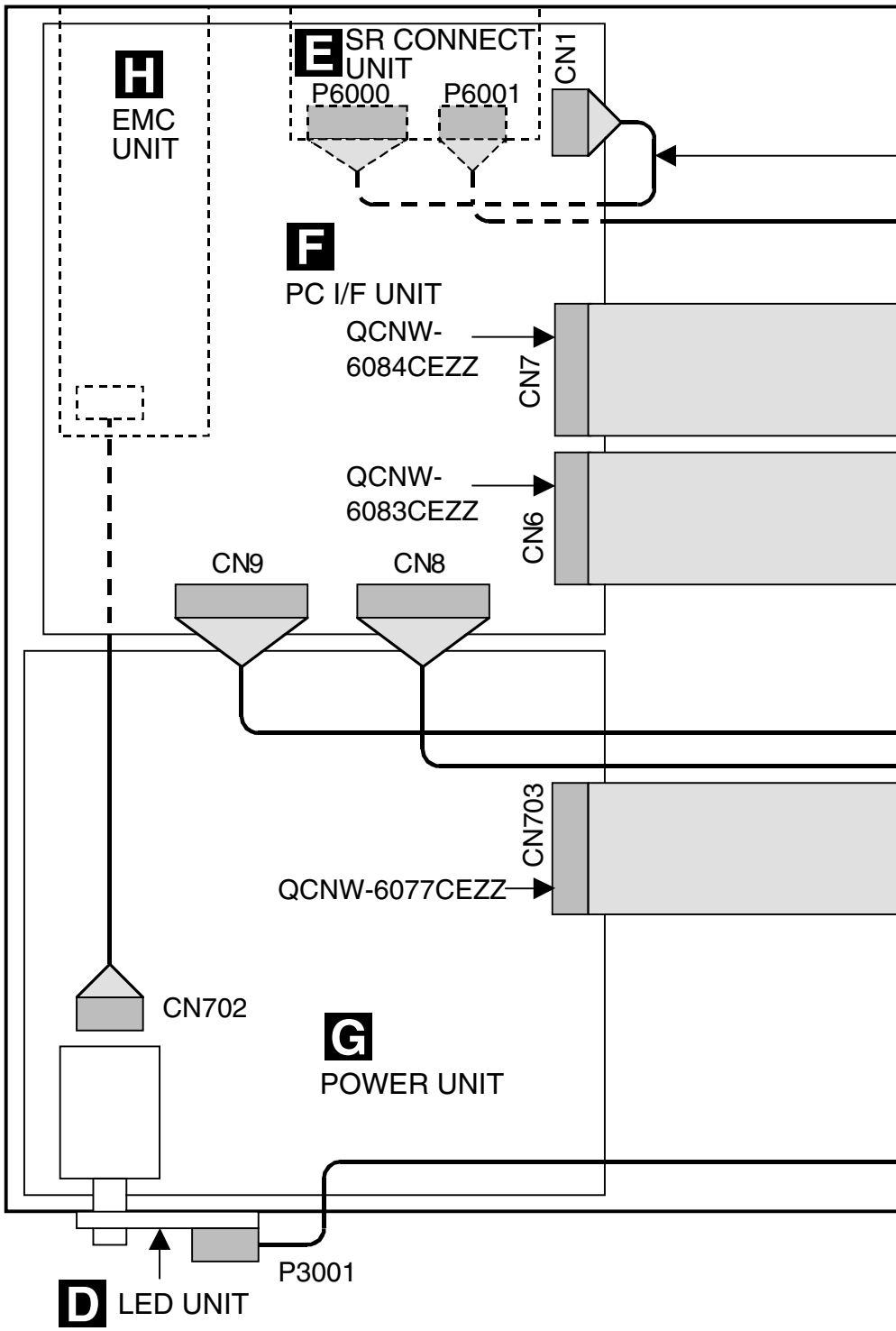
㉔ IC804 11-pin
V: 500mV/div H: 10µsec/div



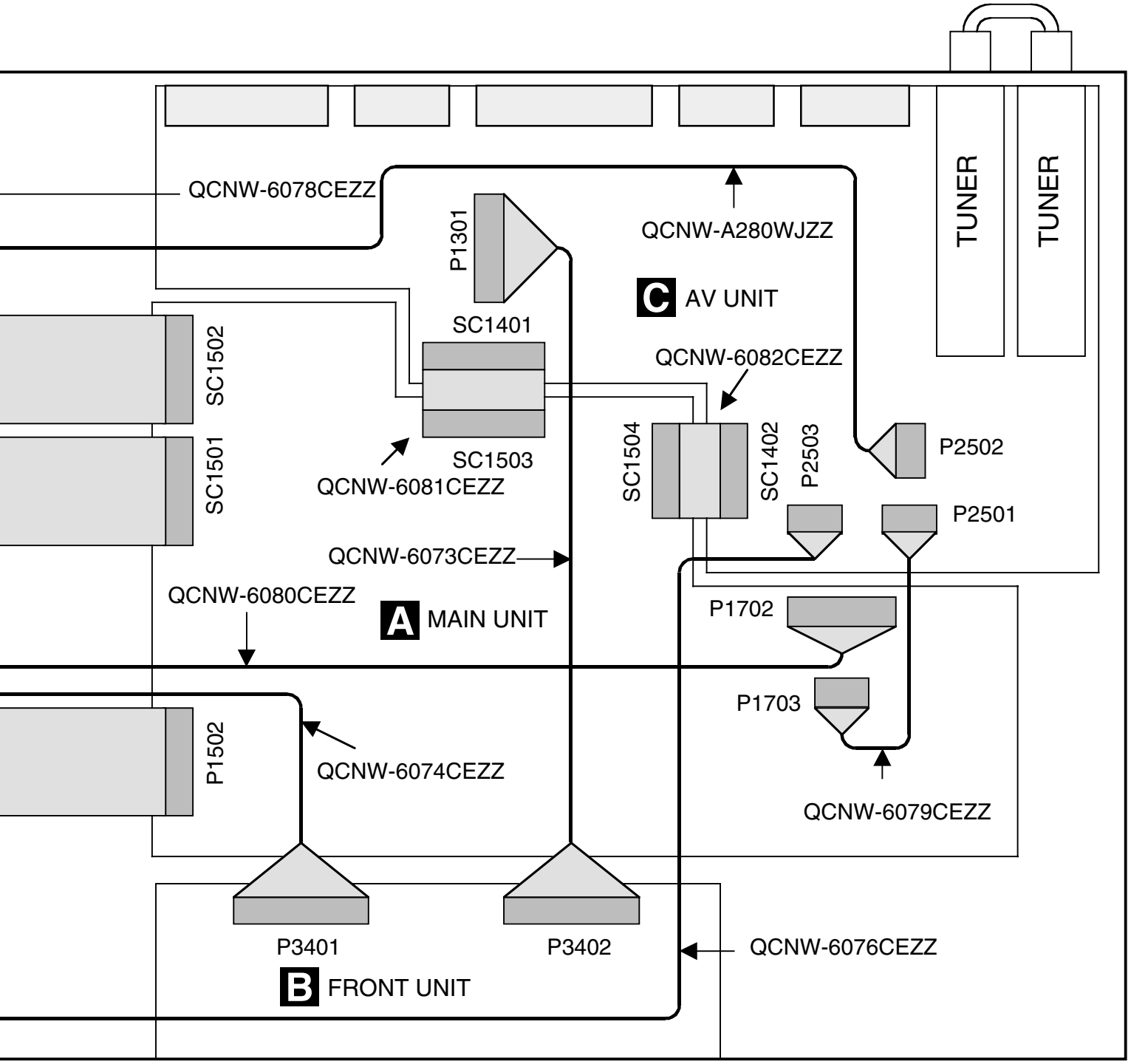
㉕ IC804 10-pin
V: 500mV/div H: 10µsec/div



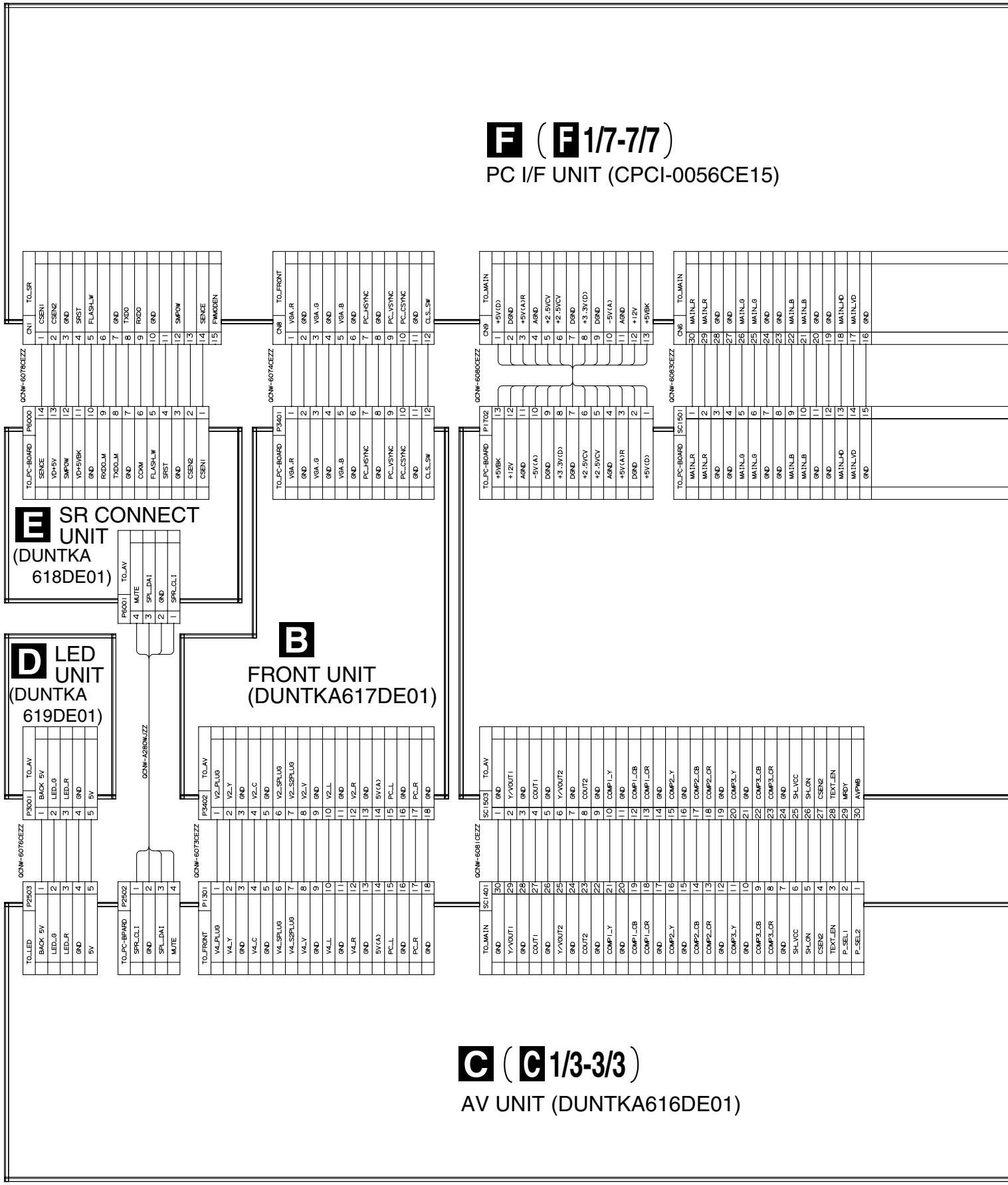
3.7 OVERALL WIRING DIAGRAM (1)

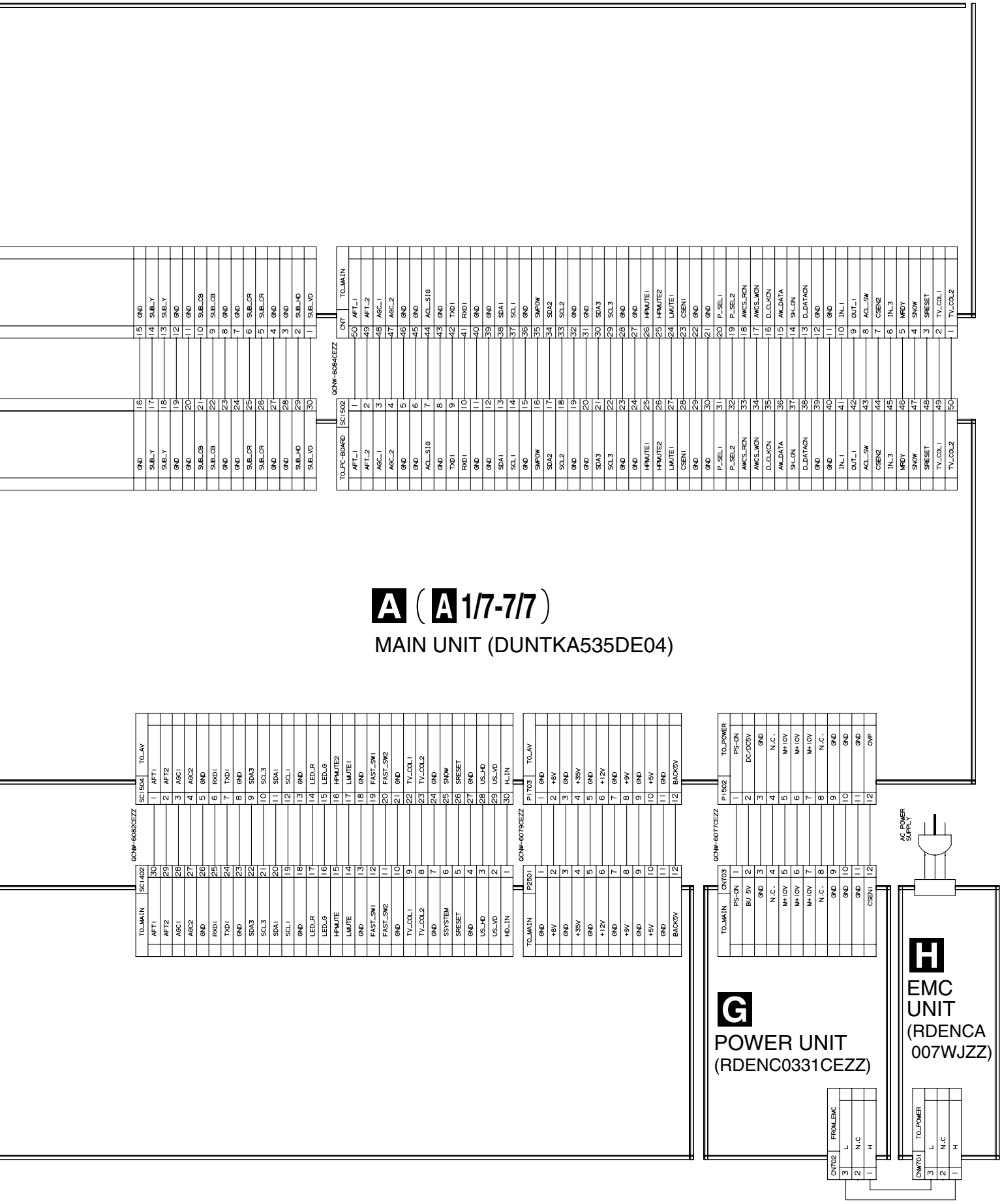


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

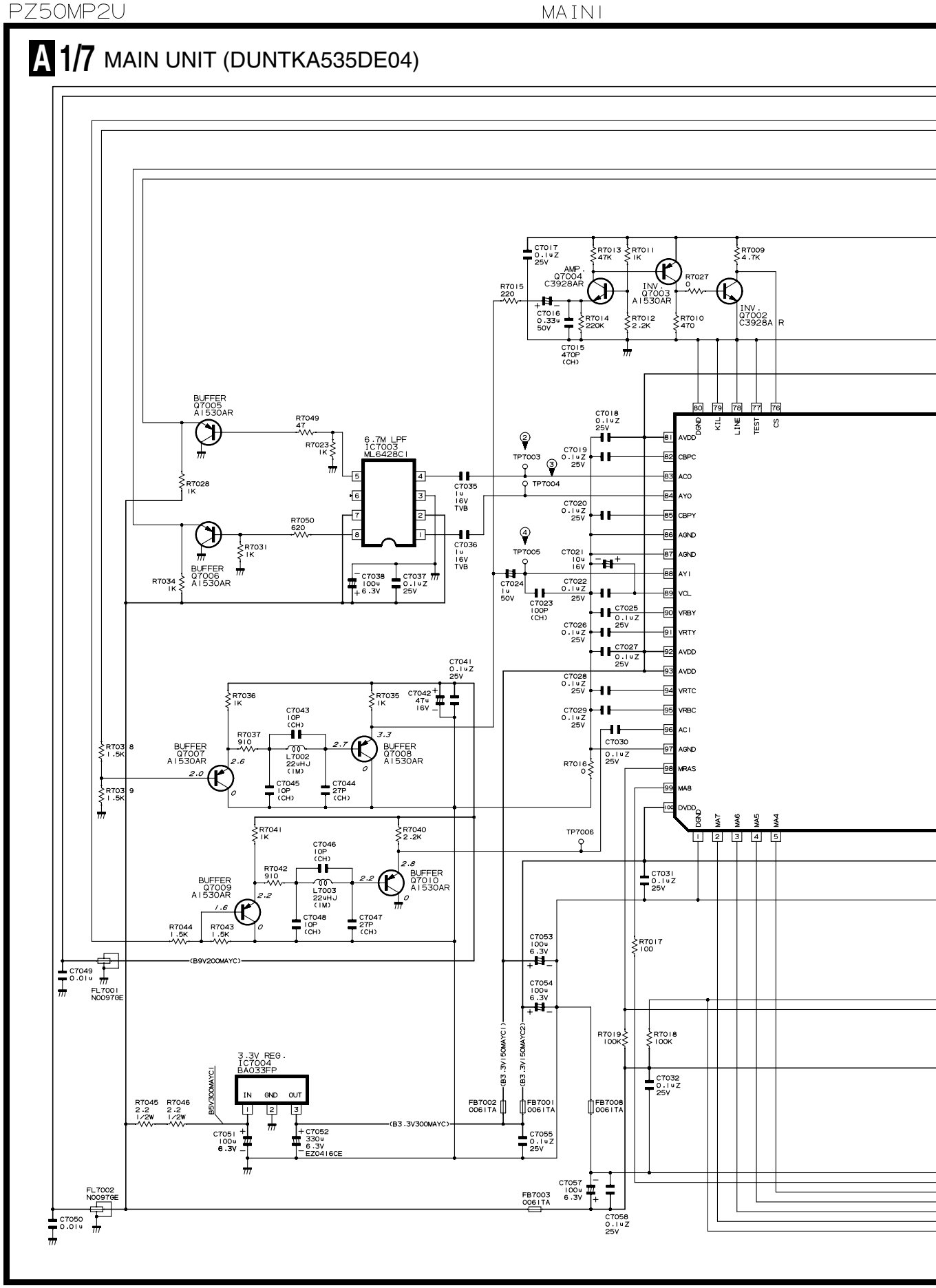


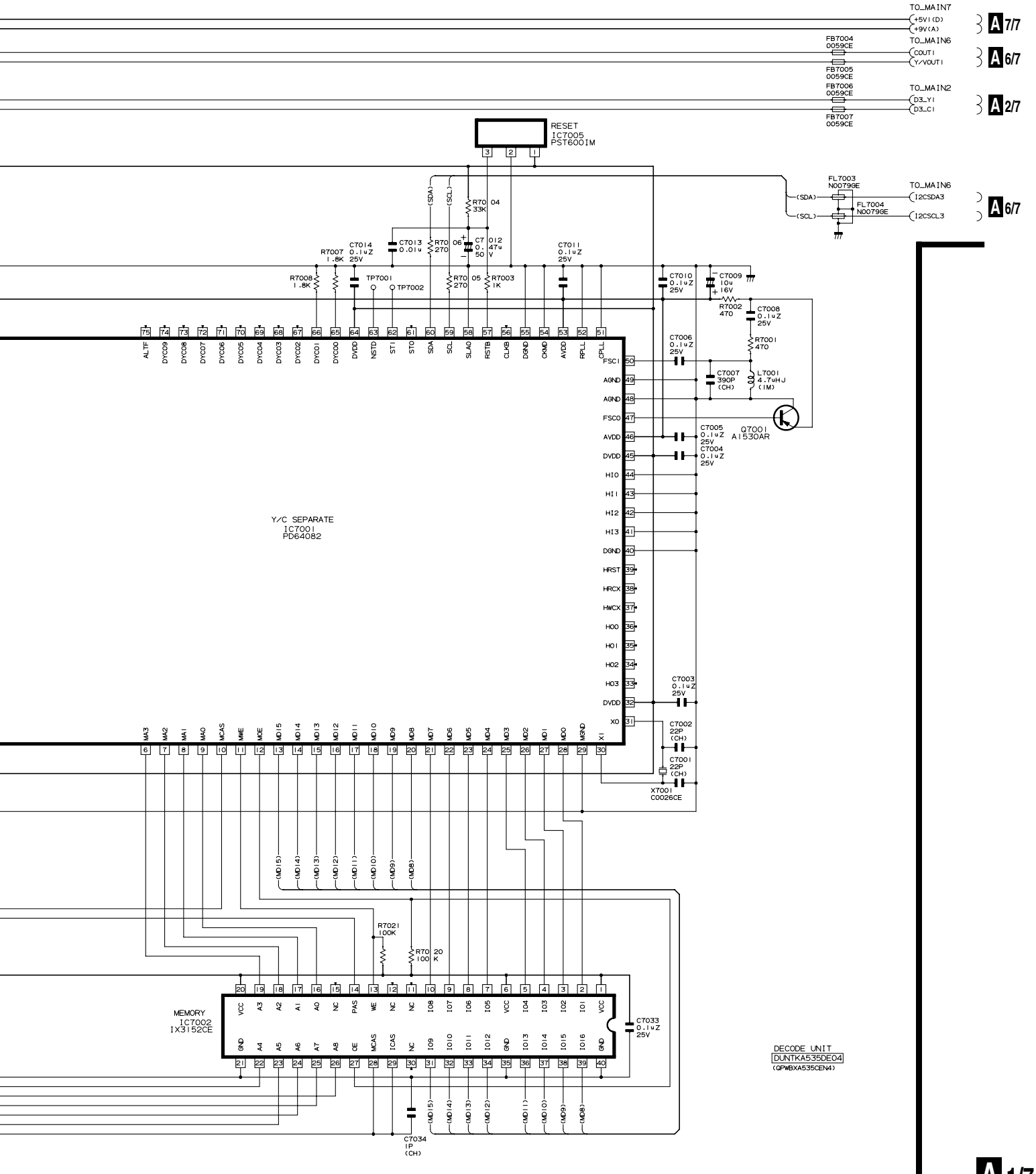
3.8 OVERALL WIRING DIAGRAM (2)



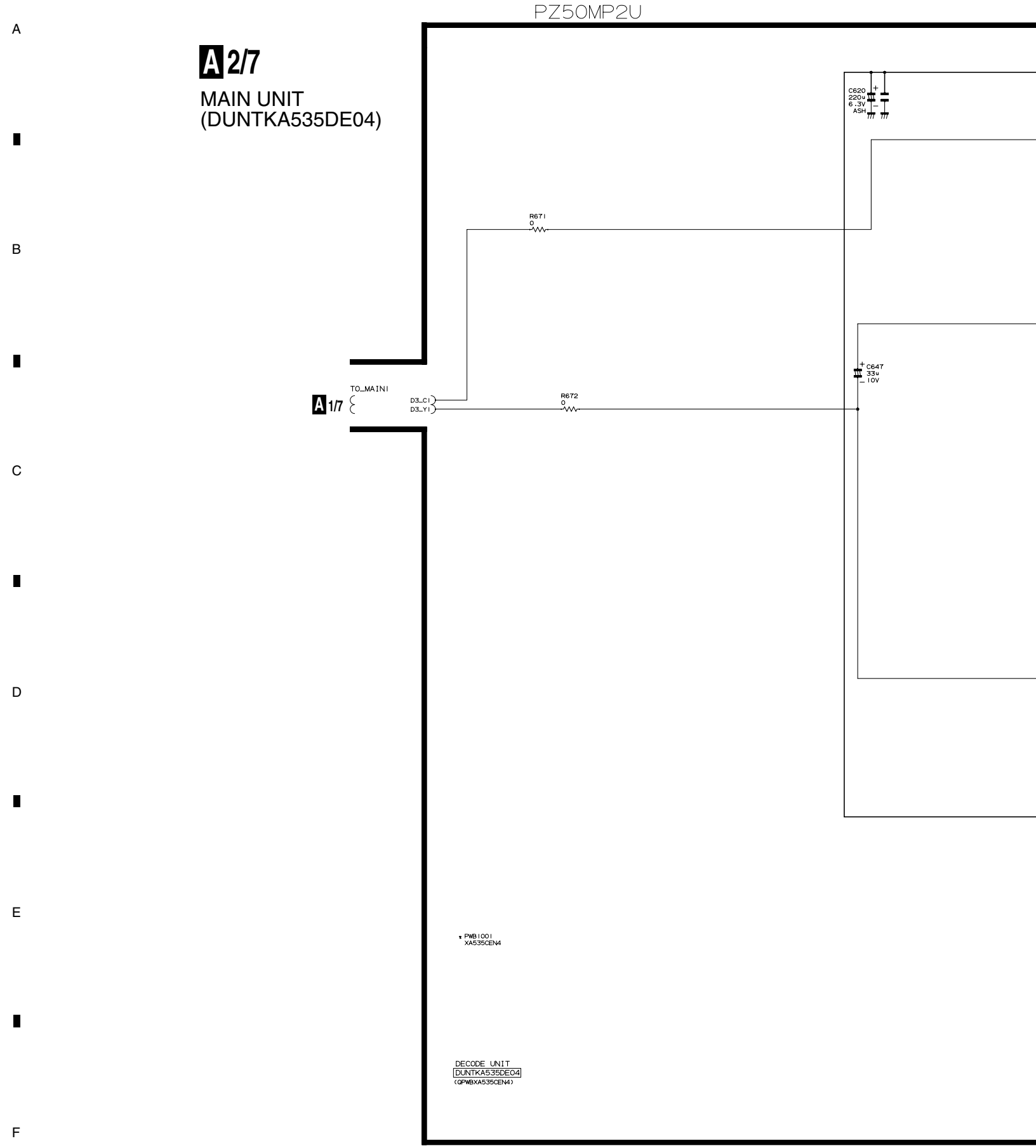

A (A 1/7-7/7)
MAIN UNIT (DUNTKA535DE04)
G
POWER UNIT
(RDENC0331CEZZ)
H
EMC
UNIT
(RDENCA
007WJZZ)
AC POWER SUPPLY
QCNW-6084CEZZ
QCNW-6082CEZZ
QCNW-6079CEZZ
QCNW-6077CEZZ
TO_MAIN
TO_PC-BOARD
TO_AV
TO_POWER
FROM_EMC

3.9 MAIN UNIT (1/7)

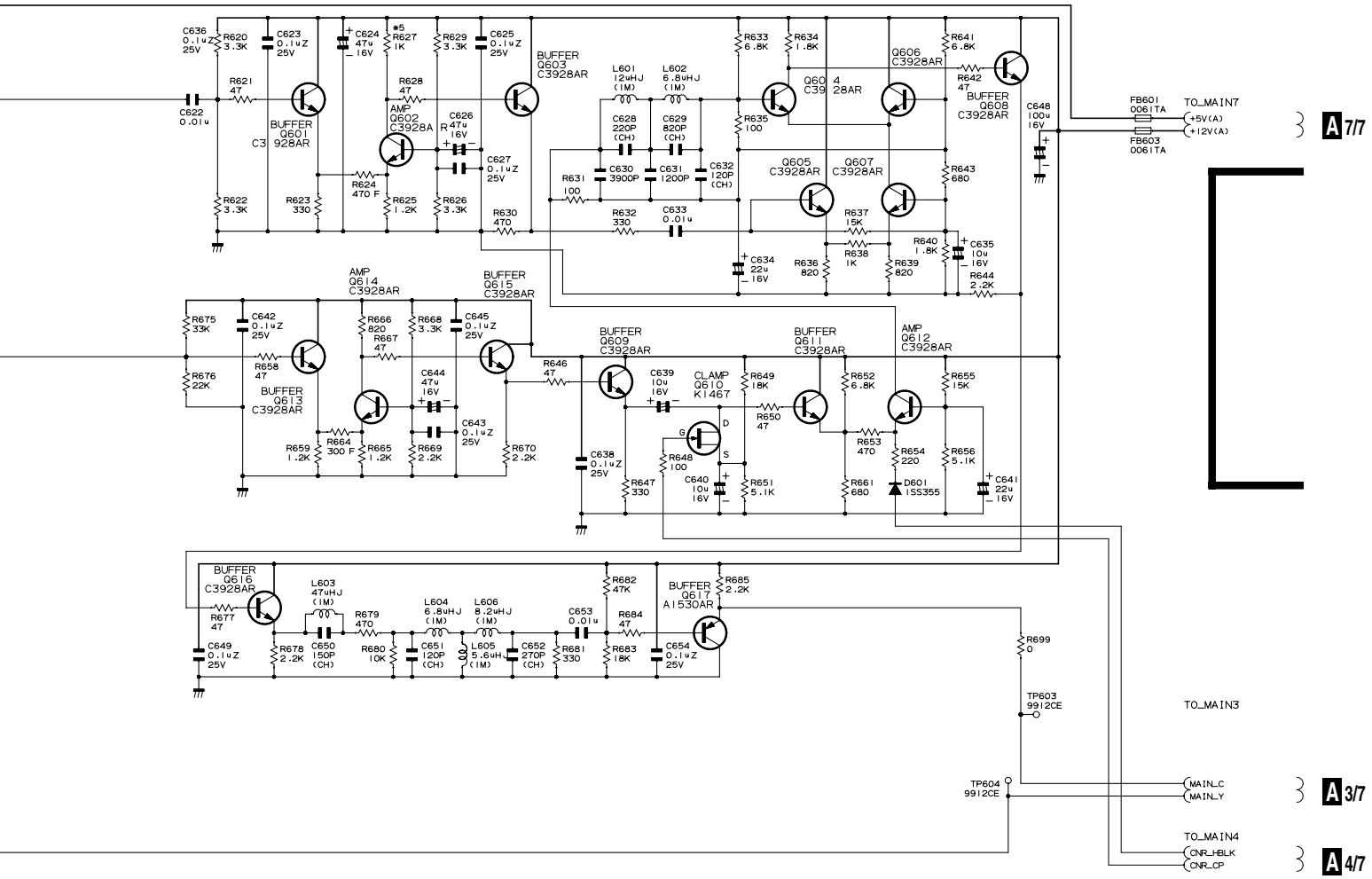


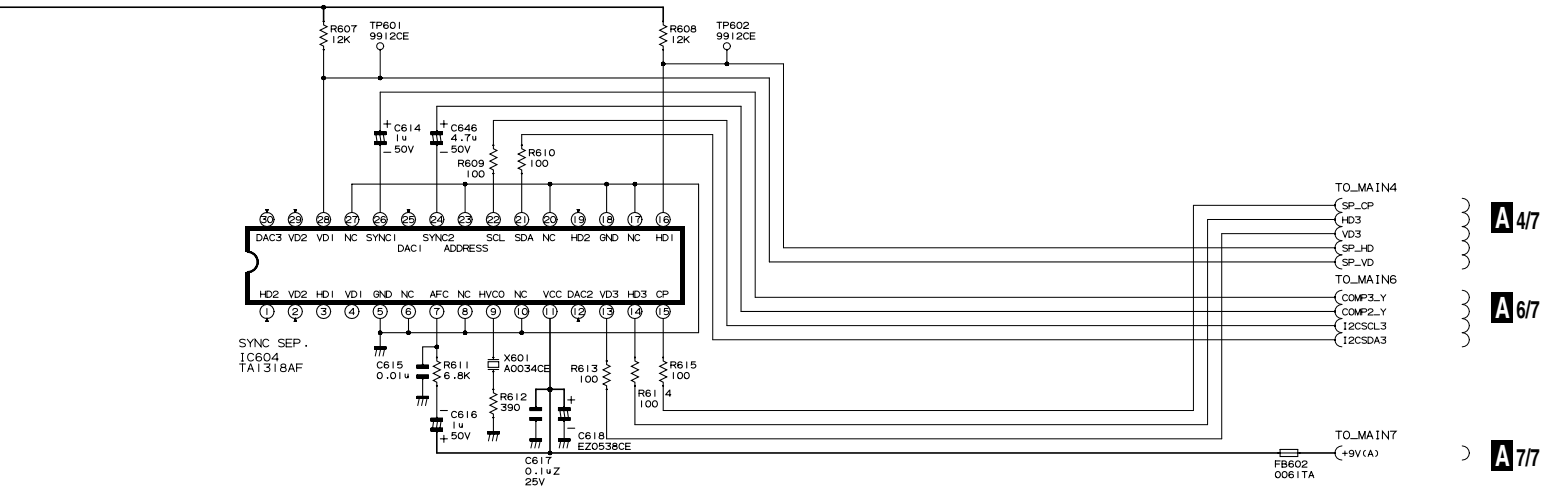

TO_MAIN7
+5V1(D)
+9V(A)
A 7/7
FB7004 0059CE
TO_MAIN6
COUT1
Y/VOUT1
A 6/7
FB7005 0059CE
FB7006 0059CE
TO_MAIN2
D3_Y1
D3_C1
A 2/7
FB7007 0059CE
RESET
IC7005
PST600IM
FL7003 N00796E
FL7004 N00796E
TO_MAIN6
I2CSDA3
I2CSCL3
A 6/7
R7004 33K
R7006 270
C7012 0.47u 50V
C7013 0.01u
C7014 0.1uZ 25V
R7007 1.8K
R7008 1.8K
TP7001
TP7002
R7005 270
R7003 1K
C7011 0.1uZ 25V
C7010 0.1uZ 25V
C7009 10u 16V
R7002 470
C7008 0.1uZ 25V
R7001 470
C7006 0.1uZ 25V
C7007 390P (CH)
L7001 4.7uHJ (1M)
Q7001 A1530AR
C7005 0.1uZ 25V
C7004 0.1uZ 25V
Y/C SEPARATE
IC7001
PD64082
C7003 0.1uZ 25V
C7002 22P (CH)
C7001 22P (CH)
X7001 C0026CE
R7021 100K
R7020 100 K
MEMORY
IC7002
IX3152CE
C7033 0.1uZ 25V
C7034 1P (CH)
DECODE UNIT
DUNTKA535DE04
(QPWBXA535CEN4)
A 1/7

3.10 MAIN UNIT (2/7)



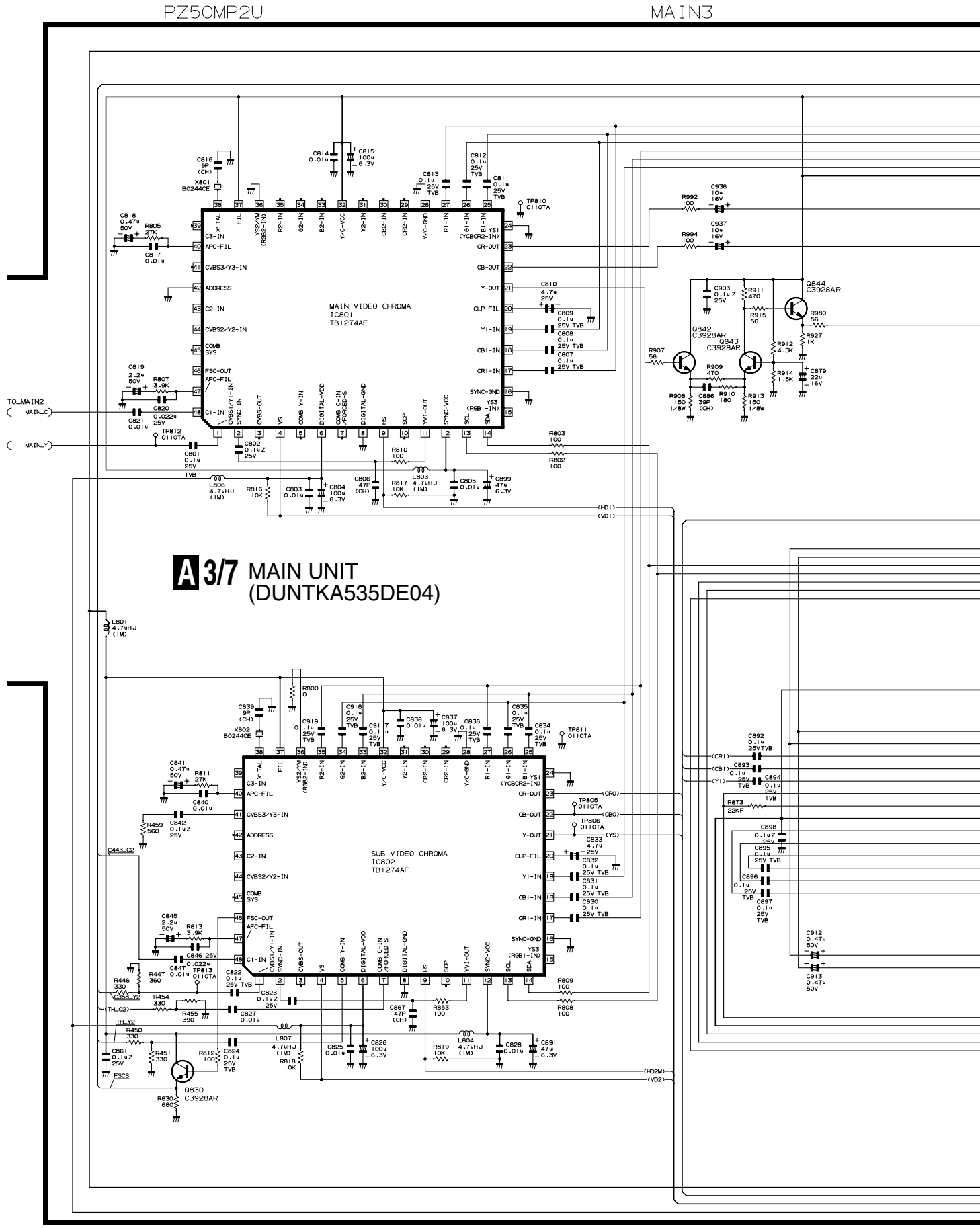
MAIN2

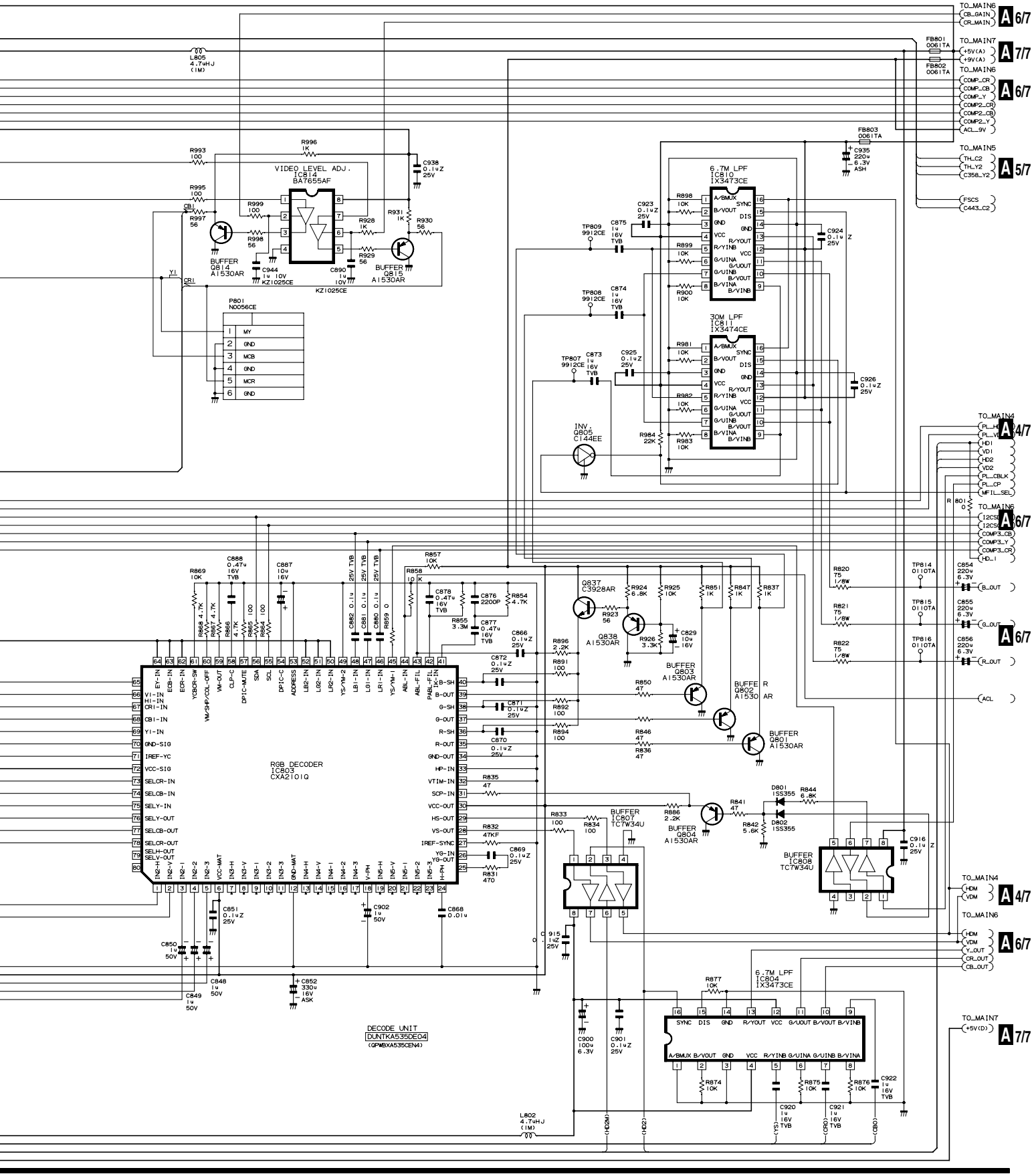

C636 0.1u 25V
R620 3.3K
C623 0.1uZ 25V
C624 47u 16V
*5
R627 1K
R629 3.3K
C625 0.1uZ 25V
BUFFER Q603 C3928AR
L601 12uHJ (1M)
L602 6.8uHJ (1M)
R633 6.8K
R634 1.8K
Q606 C3928AR
R641 6.8K
R642 47
BUFFER Q608 C3928AR
C648 100u 16V
FB601 0061TA
TO_MAIN7
+5V(A)
+12V(A)
FB603 0061TA
A 7/7
C622 0.01u
R621 47
BUFFER Q601 C3928AR
AMP Q602 C3928A
R628 47
C626 R47u 16V
C627 0.1uZ 25V
R624 470 F
R622 3.3K
R623 330
R625 1.2K
R626 3.3K
R630 470
C628 220P (CH)
C629 820P (CH)
C630 3900P
C631 1200P
C632 120P (CH)
R631 100
R632 330
C633 0.01u
R635 100
Q605 C3928AR
Q607 C3928AR
R643 680
R637 15K
R638 1K
R636 820
R639 820
R640 1.8K
C635 10u 16V
C634 22u 16V
R644 2.2K
AMP Q614 C3928AR
BUFFER Q615 C3928AR
R675 33K
C642 0.1uZ 25V
R666 820
R667 47
R668 3.3K
C645 0.1uZ 25V
R658 47
R676 22K
BUFFER Q613 C3928AR
C644 47u 16V
C643 0.1uZ 25V
R659 1.2K
R664 300 F
R665 1.2K
R669 2.2K
R670 2.2K
R646 47
BUFFER Q609 C3928AR
C639 10u 16V
CLAMP Q610 K1467
R649 18K
BUFFER Q611 C3928AR
AMP Q612 C3928AR
R652 6.8K
R655 15K
R650 47
R653 470
R654 220
R656 5.1K
R648 100
C638 0.1uZ 25V
R647 330
C640 10u 16V
R651 5.1K
R661 680
D601 1SS355
C641 22u 16V
BUFFER Q616 C3928AR
L603 47uHJ (1M)
R679 470
L604 6.8uHJ (1M)
L606 8.2uHJ (1M)
C653 0.01u
R682 47K
R685 2.2K
BUFFER Q617 A1530AR
R677 47
C649 0.1uZ 25V
R678 2.2K
C650 150P (CH)
R680 10K
C651 120P (CH)
L605 5.6uHJ (1M)
C652 270P (CH)
R681 330
R684 47
R683 18K
C654 0.1uZ 25V
R699 0
TP603 9912CE
TO_MAIN3
TP604 9912CE
MAIN_C
MAIN_Y
A 3/7
TO_MAIN4
CNR_HBLK
CNR_CP
A 4/7


R607 12K
TP601 9912CE
R608 12K
TP602 9912CE
C614 1u 50V
C646 4.7u 50V
R609 100
R610 100
DAC3 VD2 VD1 NC SYNC1 SYNC2 SCL SDA NC HD2 GND NC HD1
DAC1 ADDRESS
HD2 VD2 HD1 VD1 GND NC AFC NC HVCO NC VCC DAC2 VD3 HD3 CP
SYNC SEP. IC604 TA1318AF
C615 0.01u
R611 6.8K
X601 A0034CE
R612 390
C616 1u 50V
R613 100
R615 100
R614 100
C618 EZ0538CE
C617 0.1uZ 25V
TO_MAIN4
SP_CP
HD3
VD3
SP_HD
SP_VD
A 4/7
TO_MAIN6
COMP3_Y
COMP2_Y
I2CSCL3
I2CSDA3
A 6/7
TO_MAIN7
+9V(A)
FB602 0061TA
A 7/7

A 2/7

3.11 MAIN UNIT (3/7)

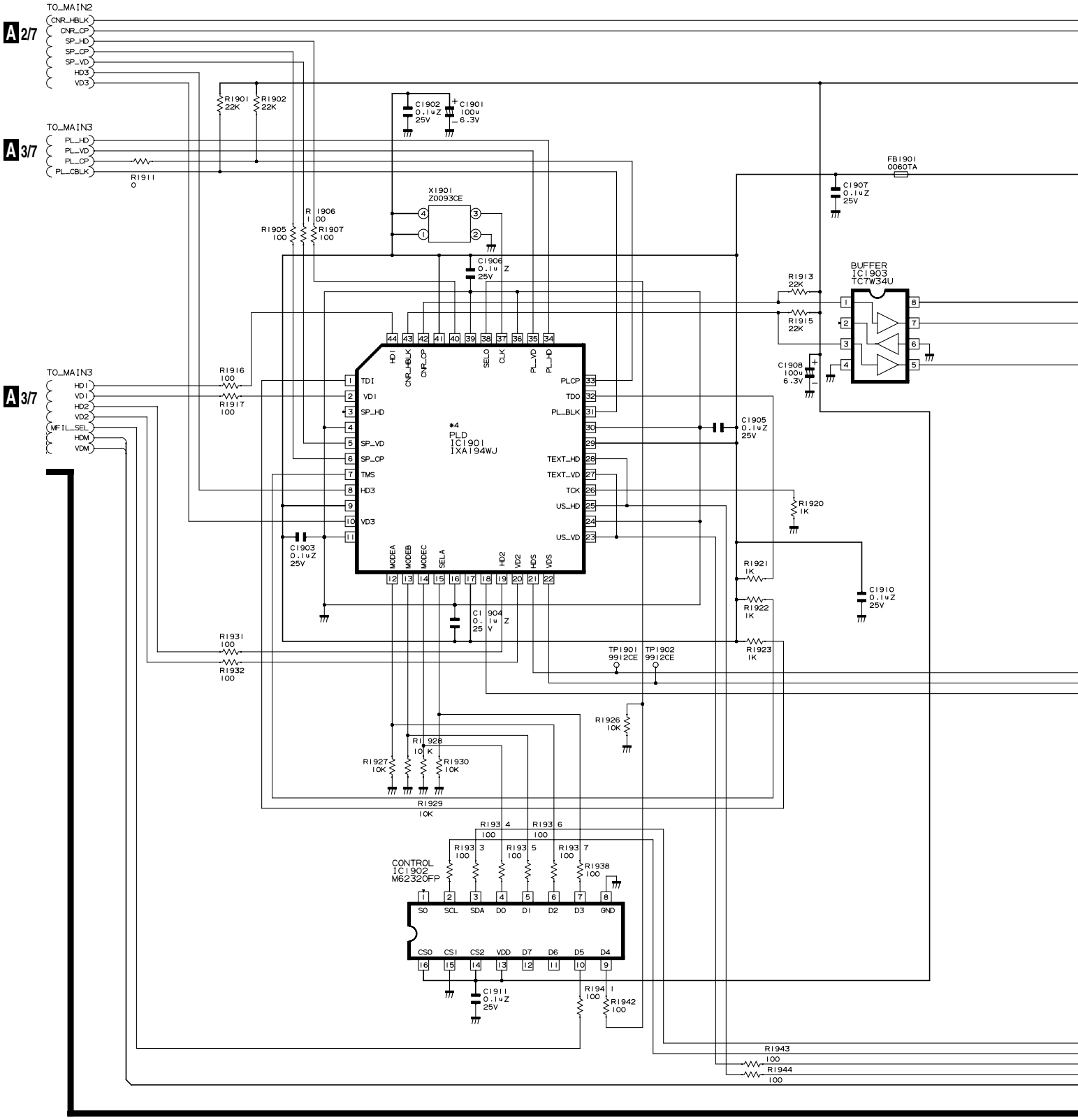


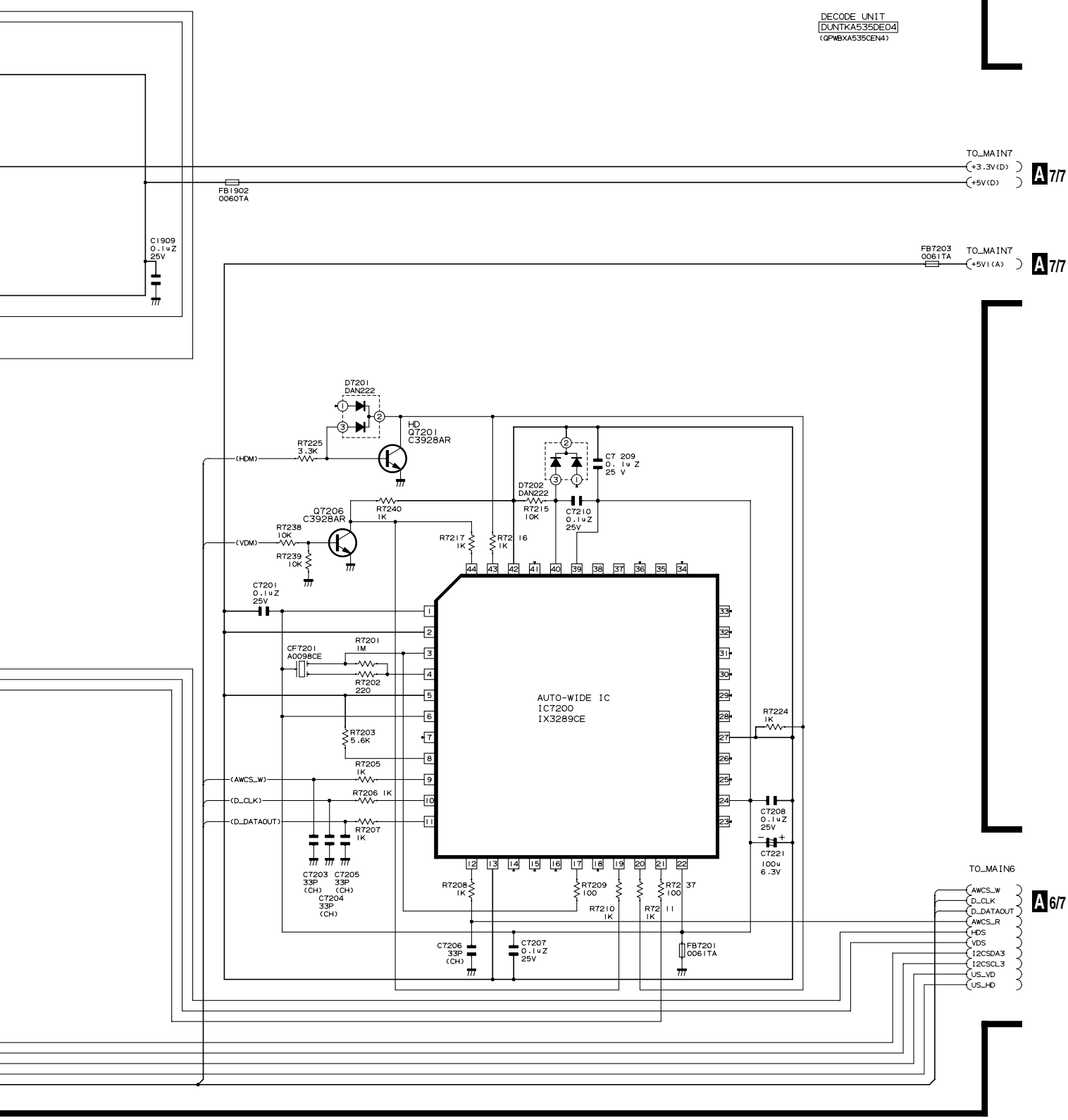

VIDEO LEVEL ADJ.
IC814
BA7655AF
RGB DECODER
IC803
CXA2101Q
DECODE UNIT
DUNTKA535DE04
(GFMBXA535CEN4)
BUFFER
IC807
TC7W34U
BUFFER
IC808
TC7W34U
6.7M LPF
IC810
IX3473CE
30M LPF
IC811
IX3474CE
6.7M LPF
IC804
IX3473CE
BUFFER
Q814
A1530AR
BUFFER
Q815
A1530AR
BUFFER
Q803
A1530AR
BUFFER
Q802
A1530AR
BUFFER
Q801
A1530AR
BUFFER
Q804
A1530AR
INV.
Q805
C144EE
Q837
C3928AR
Q838
A1530AR
P801
N0056CE
TO_MAIN6
TO_MAIN7
TO_MAIN5
TO_MAIN4

3.12 MAIN UNIT (4/7)

A 4/7 MAIN UNIT (DUNTKA535DE04)

PZ50MP2U MAIN4



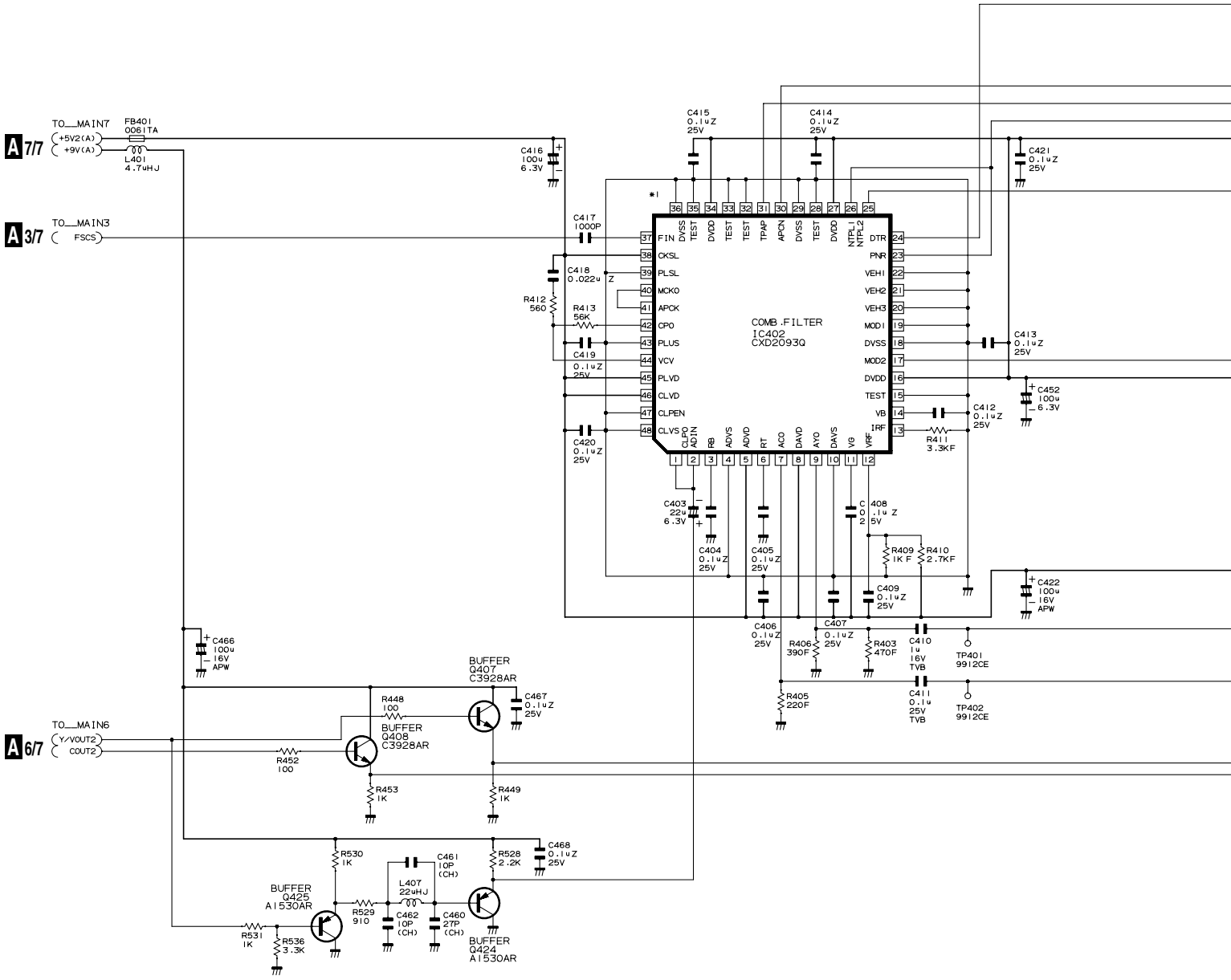

DECODE UNIT
DUNTKA535DE04
(QPWBXA535CEN4)
TO_MAIN7
+3.3V(D)
+5V(D)
A 7/7
FB1902
0060TA
C1909
0.1uZ
25V
FBT203
0061TA
TO_MAIN7
+5V1(A)
A 7/7
D7201
DAN222
HD
Q7201
C3928AR
R7225
3.3K
(HDM)
C7 209
0. 1u Z
25 V
D7202
DAN222
R7215
10K
C7210
0.1uZ
25V
Q7206
C3928AR
R7240
1K
R7238
10K
(VDM)
R7239
10K
R7217
1K
R7216
1K
C7201
0.1uZ
25V
CF7201
A0098CE
R7201
1M
R7202
220
R7203
5.6K
R7205
1K
(AWCS_W)
R7206 1K
(D_CLK)
(D_DATAOUT)
R7207
1K
C7203
33P
(CH)
C7205
33P
(CH)
C7204
33P
(CH)
AUTO-WIDE IC
IC7200
IX3289CE
R7224
1K
C7208
0.1uZ
25V
C7221
100u
6.3V
R7208
1K
R7209
100
R7210
1K
R7211
1K
R7237
100
C7206
33P
(CH)
C7207
0.1uZ
25V
FBT201
0061TA
TO_MAIN6
A 6/7
AWCS_W
D_CLK
D_DATAOUT
AWCS_R
HDS
VDS
I2CSDA3
I2CSCL3
US_VD
US_HD

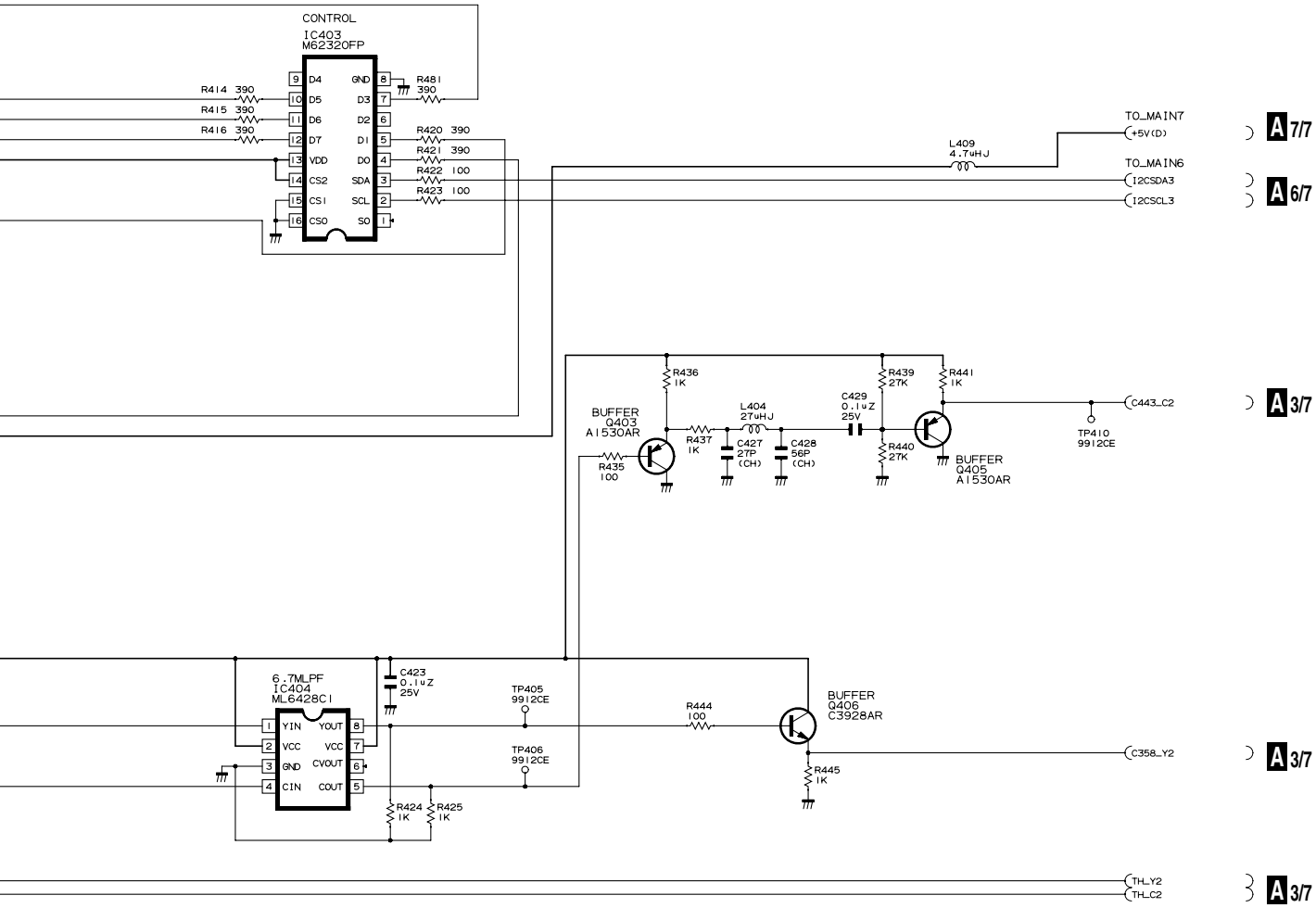
A 4/7

3.13 MAIN UNIT (5/7)

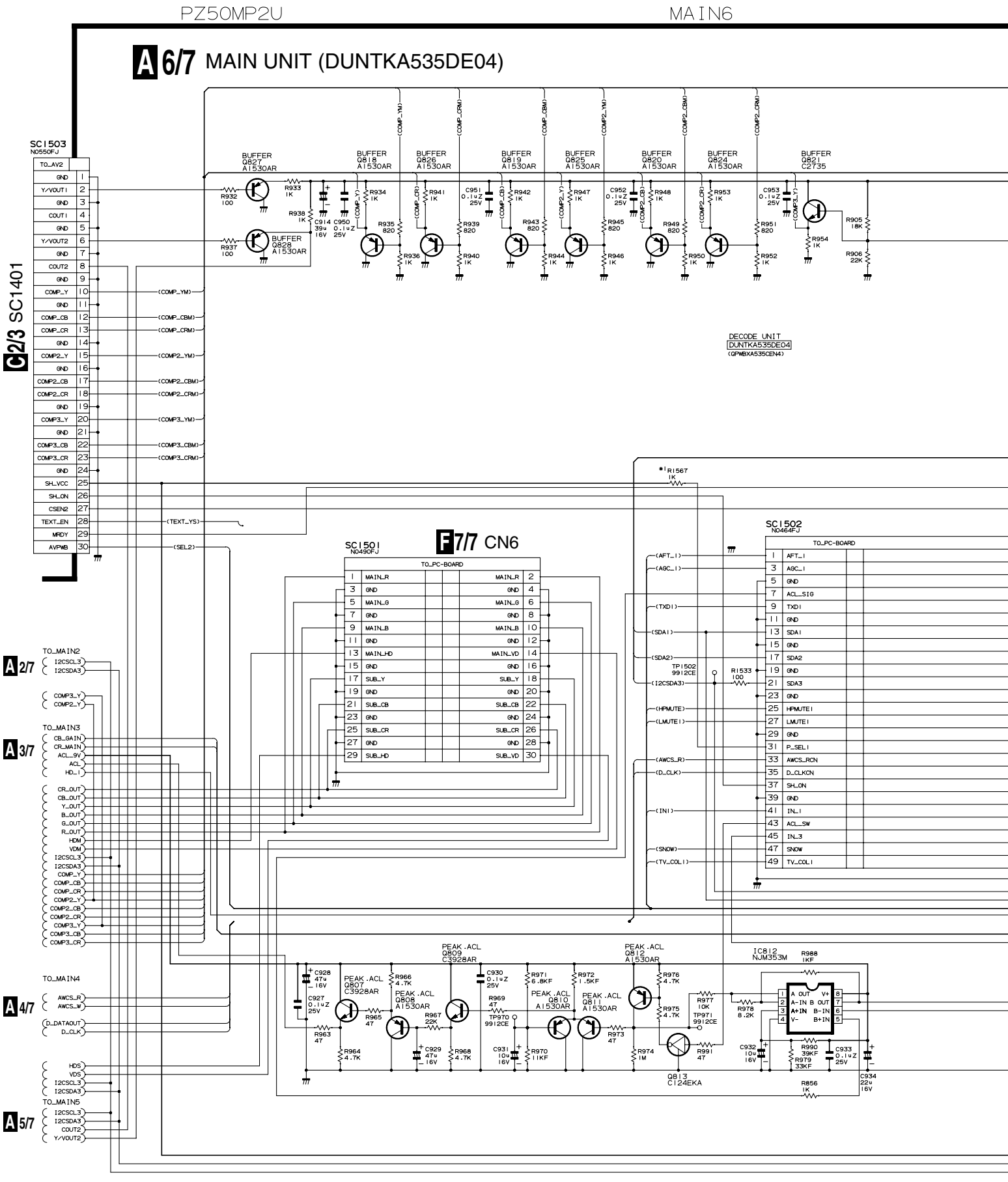
A 5/7 MAIN UNIT (DUNTKA535DE04)

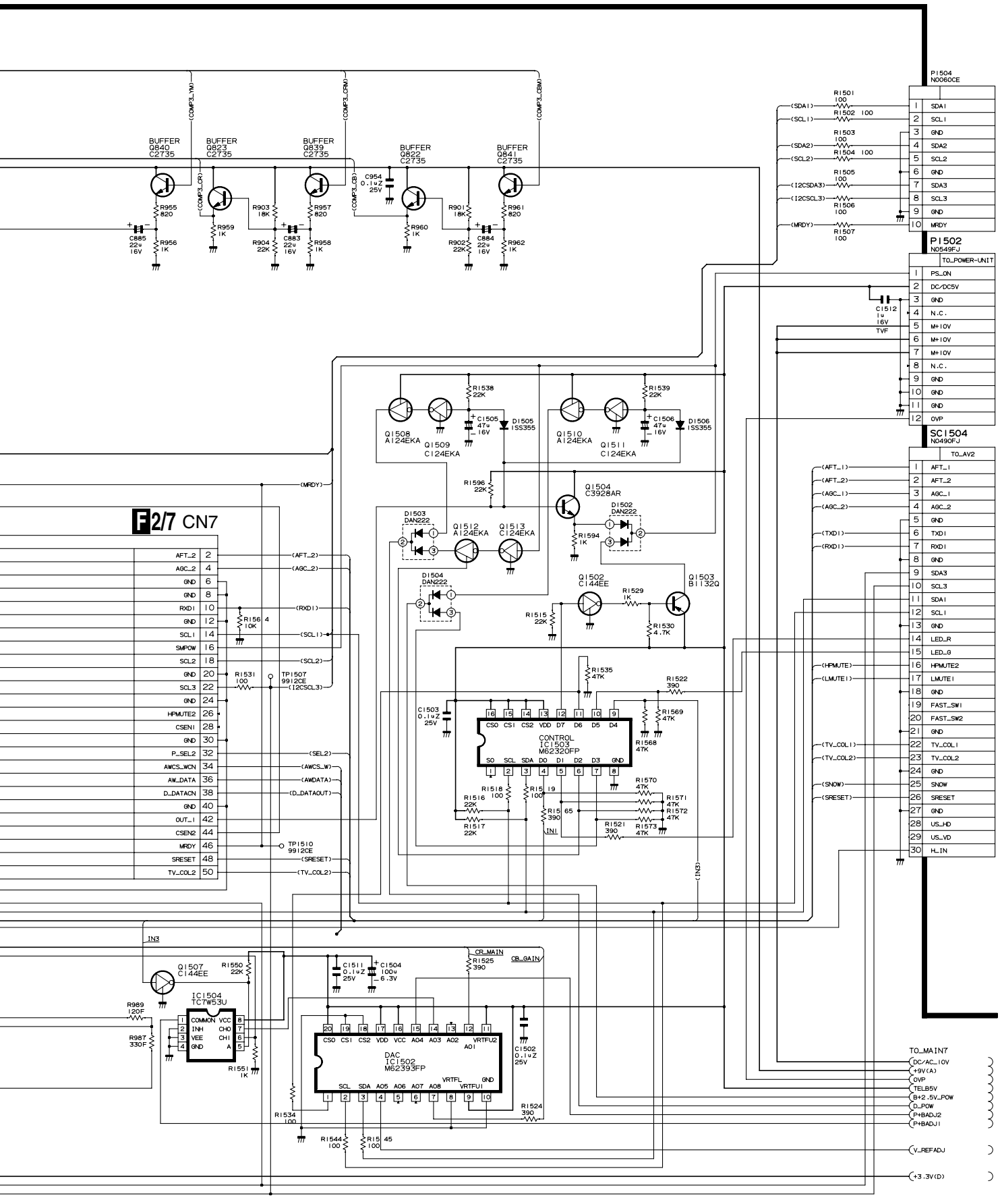
PZ50MP2U MAIN5




CONTROL
IC403
M62320FP
D4
D5
D6
D7
VDD
CS2
CS1
CS0
GND
D3
D2
D1
D0
SDA
SCL
SO
R414 390
R415 390
R416 390
R481 390
R420 390
R421 390
R422 100
R423 100
L409
4.7uHJ
TO_MAIN7
+5V(D)
TO_MAIN6
I2CSDA3
I2CSCL3
A 7/7
A 6/7
R436 1K
BUFFER
Q403
A1530AR
R437 1K
L404
27uHJ
C427 27P (CH)
C428 56P (CH)
C429 0.1uZ 25V
R439 27K
R441 1K
R440 27K
BUFFER
Q405
A1530AR
R435 100
C443_C2
TP410
9912CE
A 3/7
6.7MLPF
IC404
ML6428C1
YIN
VCC
GND
CIN
YOUT
VCC
CVOUT
COUT
C423 0.1uZ 25V
TP405
9912CE
TP406
9912CE
R424 1K
R425 1K
R444 100
BUFFER
Q406
C3928AR
R445 1K
C358_Y2
A 3/7
TH_Y2
TH_C2
A 3/7

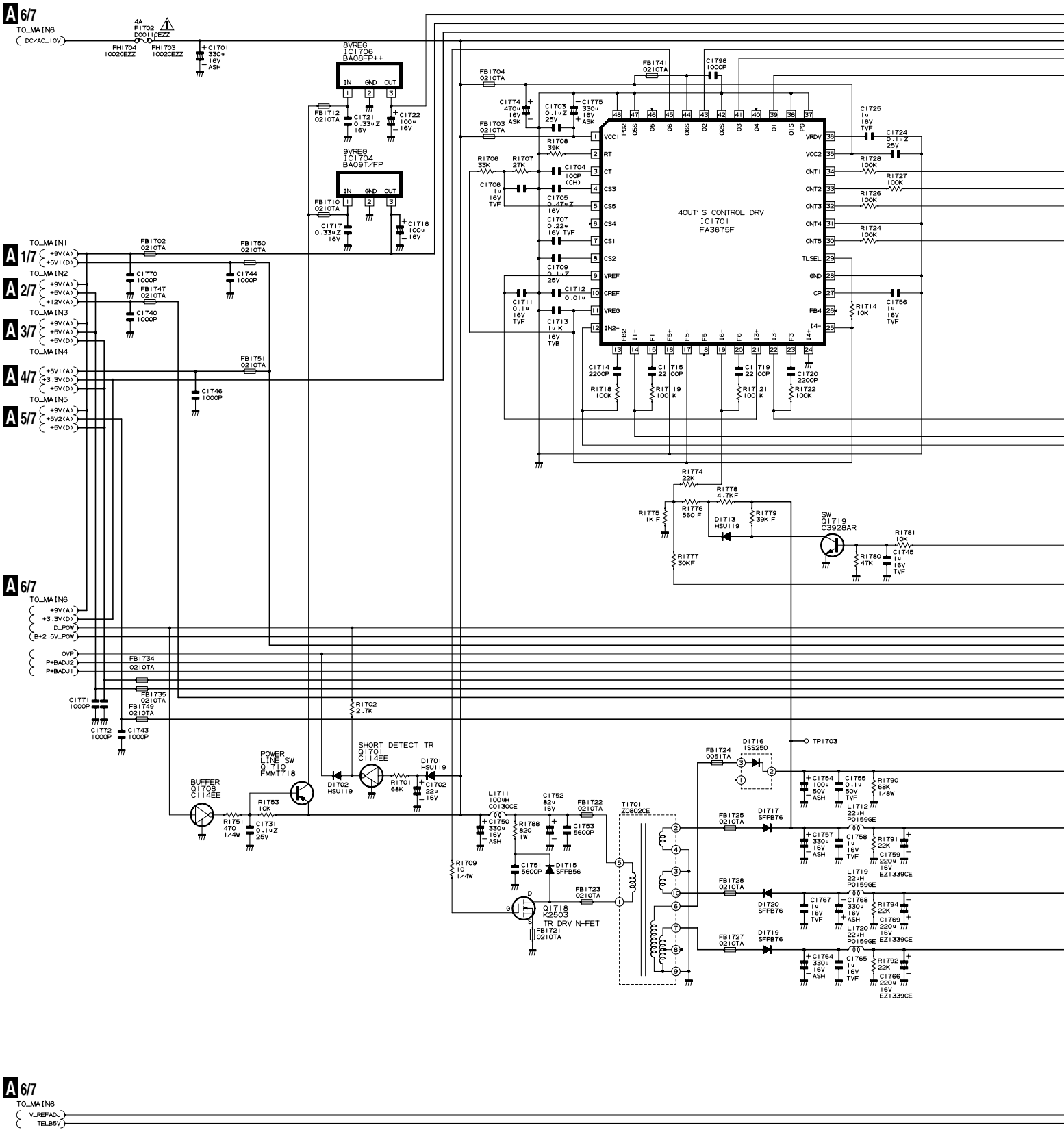
3.14 MAIN UNIT (6/7)

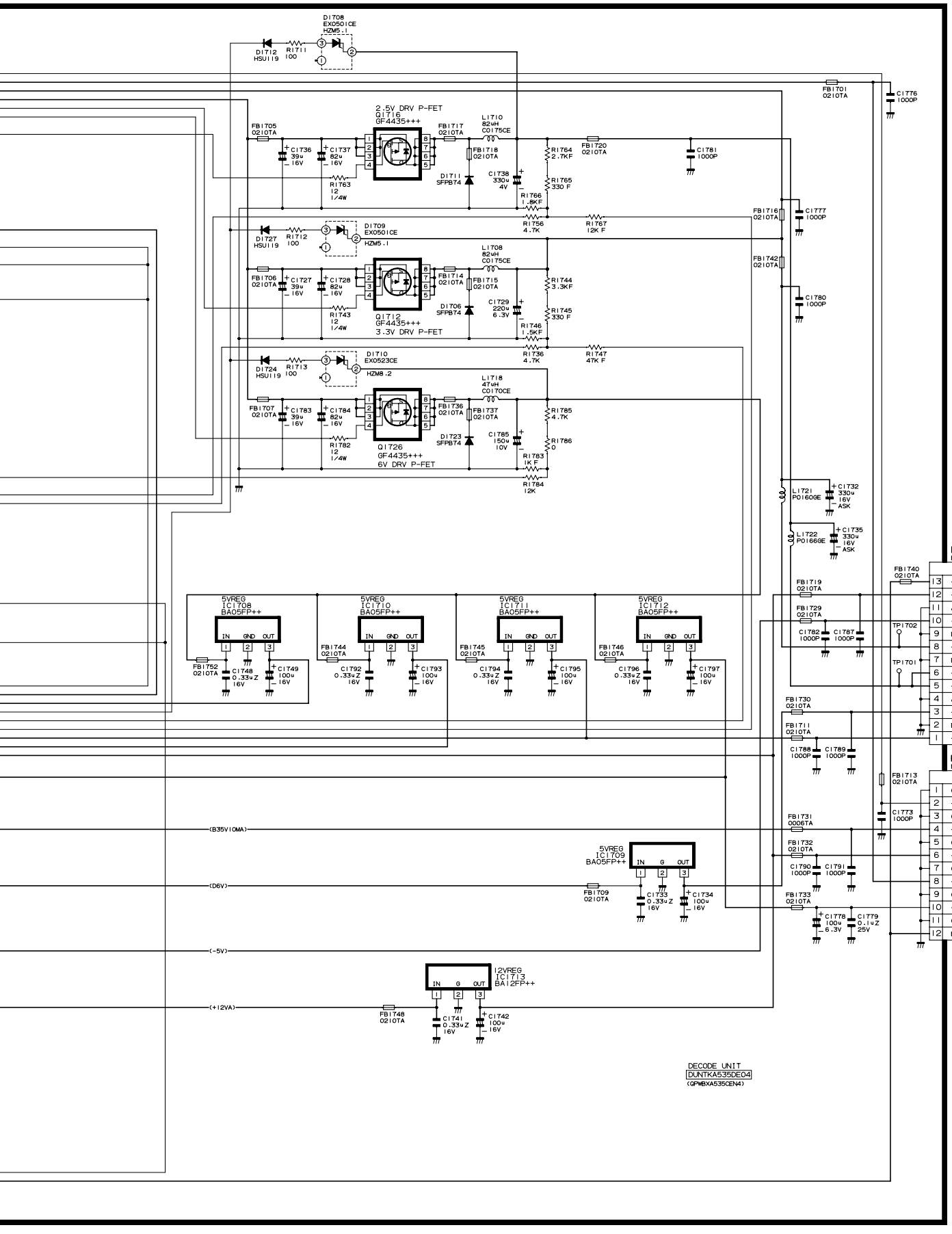



BUFFER Q840 C2735
BUFFER Q823 C2735
BUFFER Q839 C2735
BUFFER Q822 C2735
BUFFER Q841 C2735
(COMP3_YW)
(COMP3_CRW)
(COMP3_CBW)
(COMP3_CR)
(COMP3_CB)
C954 0.1uZ 25V
R955 820
R959 1K
R903 18K
R957 820
R960 1K
R901 18K
R961 820
R956 1K
R904 22K
R958 1K
R902 22K
R962 1K
C885 22u 16V
C883 22u 16V
C884 22u 16V
P1504 N0060CE
R1501 100
R1502 100
R1503 100
R1504 100
R1505 100
R1506 100
R1507 100
(SDA1)
(SCL1)
(SDA2)
(SCL2)
(I2CSDA3)
(I2CSCL3)
(MRDY)
SDA1
SCL1
GND
SDA2
SCL2
GND
SDA3
SCL3
GND
MRDY
P1502 N0549FJ
TO_POWER-UNIT
PS_ON
DC/DC5V
GND
N.C.
M+10V
M+10V
M+10V
N.C.
GND
GND
GND
OVP
C1512 1u 16V TVF
G CN703
SC1504 N0490FJ
TO_AV2
AFT_1
AFT_2
AGC_1
AGC_2
GND
TXD1
RXD1
GND
SDA3
SCL3
SDA1
SCL1
GND
LED_R
LED_G
HPMUTE2
LMUTE1
GND
FAST_SW1
FAST_SW2
GND
TV_COL1
TV_COL2
GND
SNOW
SRESET
GND
VS_HD
VS_VD
H_IN
(AFT_1)
(AFT_2)
(AGC_1)
(AGC_2)
(TXD1)
(RXD1)
(HPMUTE)
(LMUTE1)
(TV_COL1)
(TV_COL2)
(SNOW)
(SRESET)
C2/3 SC1402
F 2/7 CN7
AFT_2 2
AGC_2 4
GND 6
GND 8
RXD1 10
GND 12
SCL1 14
SMPOW 16
SCL2 18
GND 20
SCL3 22
GND 24
HPMUTE2 26
CSEN1 28
GND 30
P_SEL2 32
AWCS_WCN 34
AW_DATA 36
D_DATACN 38
GND 40
OUT_1 42
CSEN2 44
MRDY 46
SRESET 48
TV_COL2 50
(AFT_2)
(AGC_2)
(RXD1)
(SCL1)
(SCL2)
(I2CSCL3)
(SEL2)
(AWCS_W)
(AWDATA)
(D_DATAOUT)
(MRDY)
(SRESET)
(TV_COL2)
R1564 10K
R1531 100
TP1507 9912CE
TP1510 9912CE
Q1508 A124EKA
Q1509 C124EKA
Q1510 A124EKA
Q1511 C124EKA
R1538 22K
R1539 22K
C1505 47u 16V
C1506 47u 16V
D1505 1SS355
D1506 1SS355
R1596 22K
Q1504 C3928AR
D1502 DAN222
D1503 DAN222
D1504 DAN222
Q1512 A124EKA
Q1513 C124EKA
R1594 1K
Q1502 C144EE
R1529 1K
Q1503 B1132Q
R1515 22K
R1530 4.7K
R1535 47K
R1522 390
R1569 47K
R1568 47K
C1503 0.1uZ 25V
CONTROL IC1503 M62320FP
R1570 47K
R1571 47K
R1572 47K
R1573 47K
R1518 100
R1519 100
R1516 22K
R1517 22K
R1565 390
R1521 390
IN1
IN3
Q1507 C144EE
R1550 22K
R989 120F
R987 330F
IC1504 TC7W53U
C1511 0.1uZ 25V
C1504 100u 6.3V
CR_MAIN
CB_GAIN
R1525 390
DAC IC1502 M62393FP
C1502 0.1uZ 25V
R1551 1K
R1534 100
R1544 100
R1545 100
R1524 390
TO_MAIN7
DC/AC_10V
+9V(A)
OVP
TELB5V
B+2.5V_POW
D_POW
P+BADJ2
P+BADJ1
V_REFADJ
+3.3V(D)
A 7/7
A 6/7

3.15 MAIN UNIT (7/7)

A 7/7 MAIN UNIT (DUNTKA535DE04)





F7/7 CN9

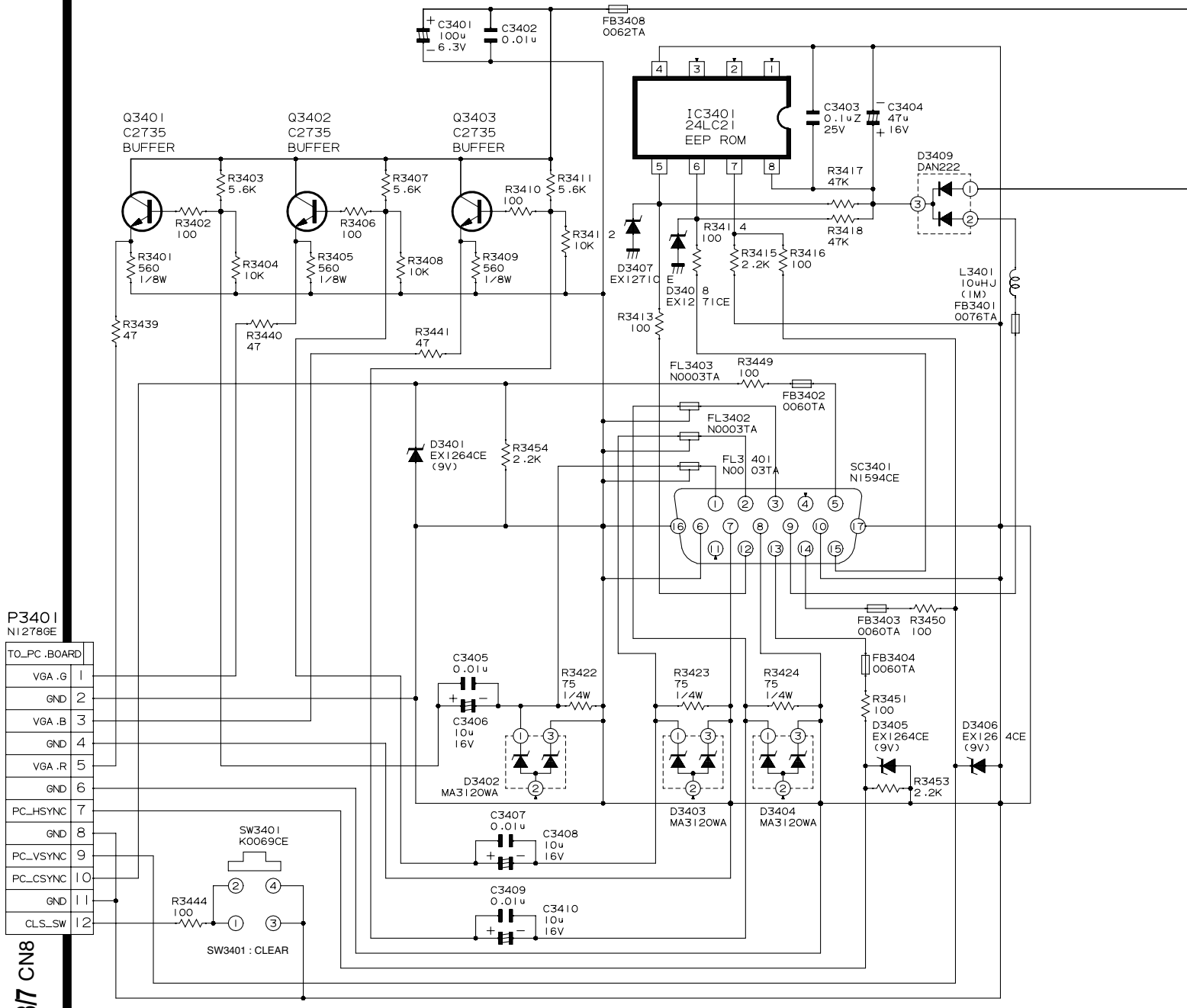
C2/3 P2501

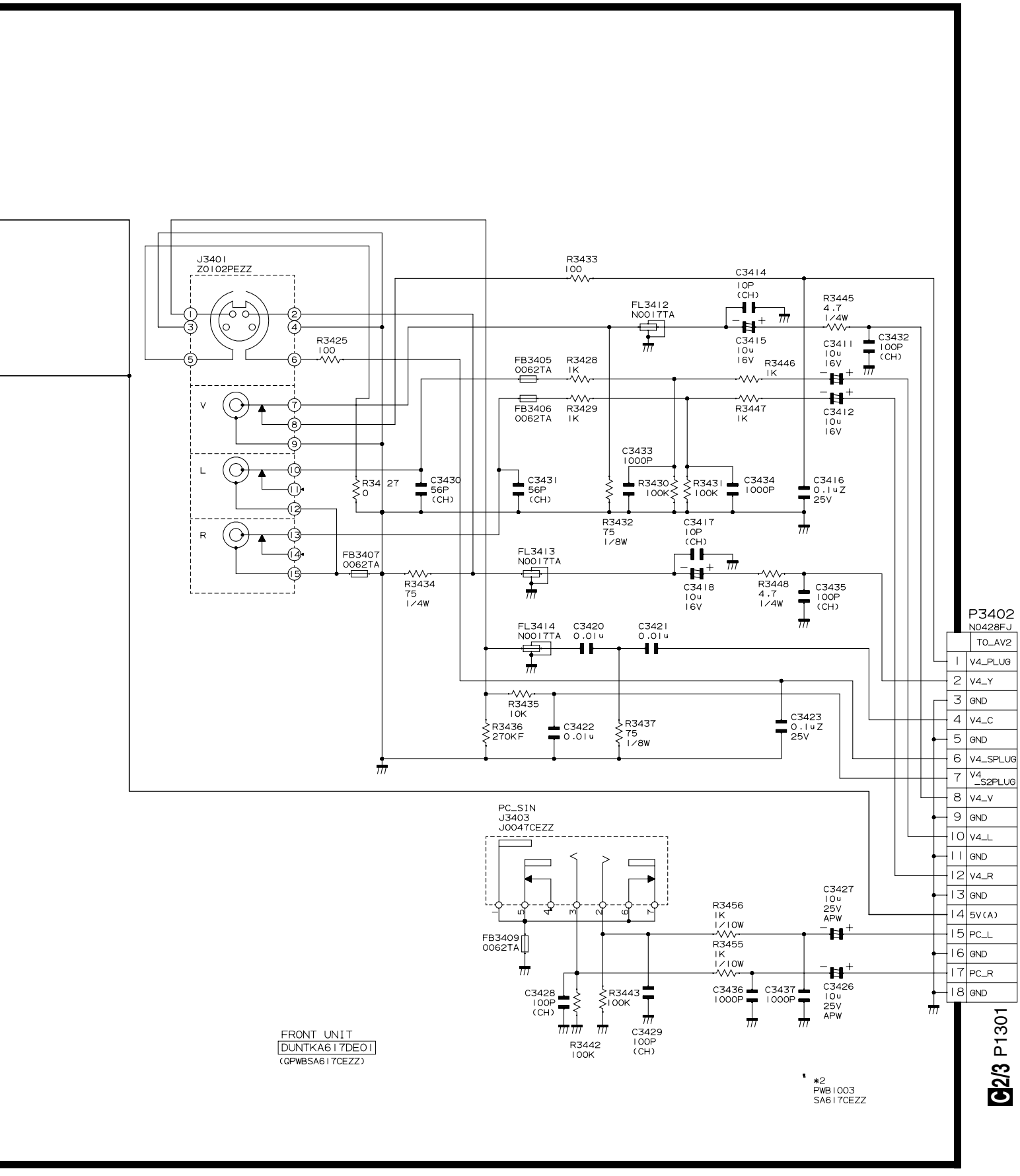
A7/7

3.16 FRONT UNIT

PZ50MP2U FRONT

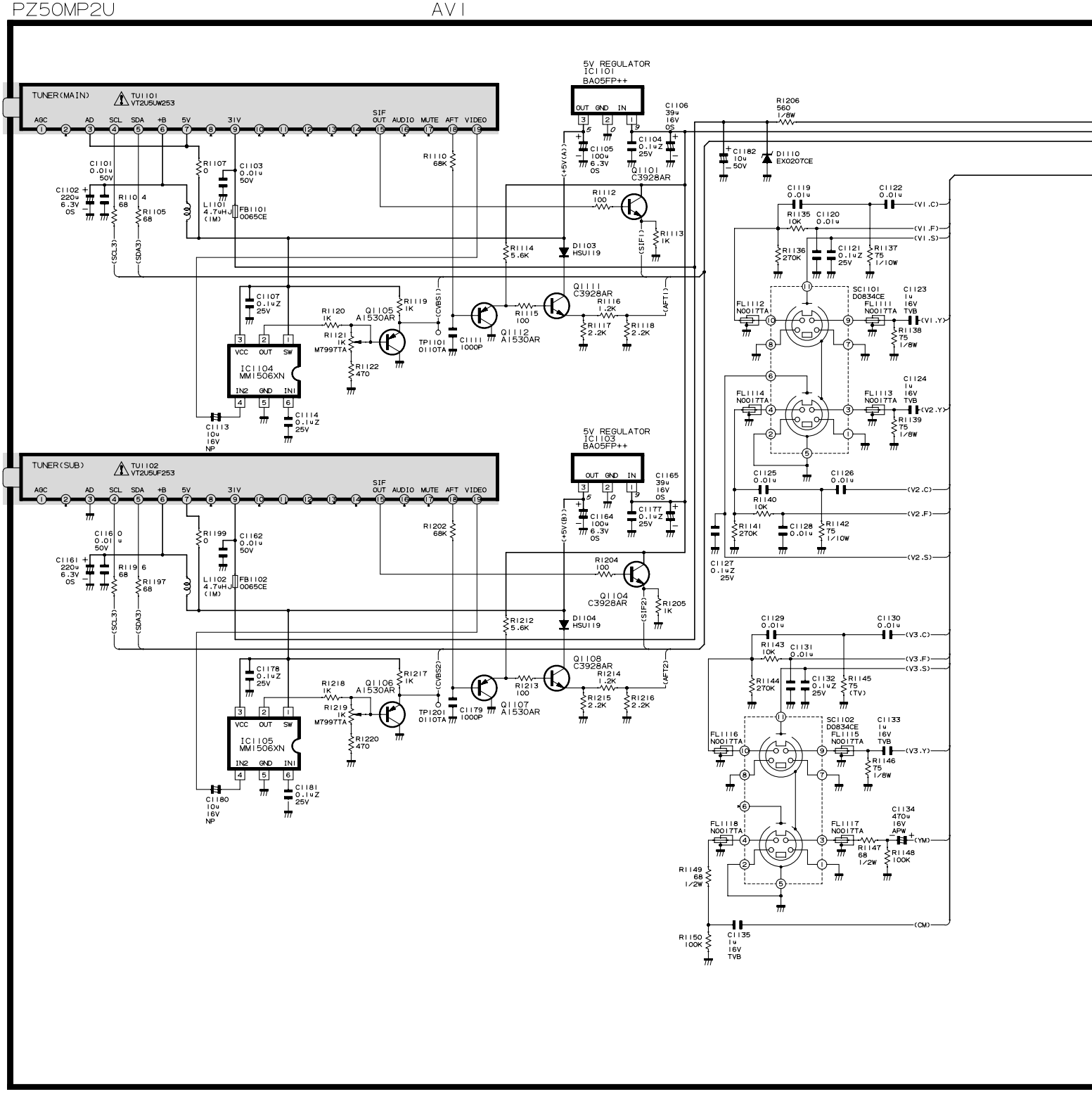
B FRONT UNIT (DUNTKA617DE01)

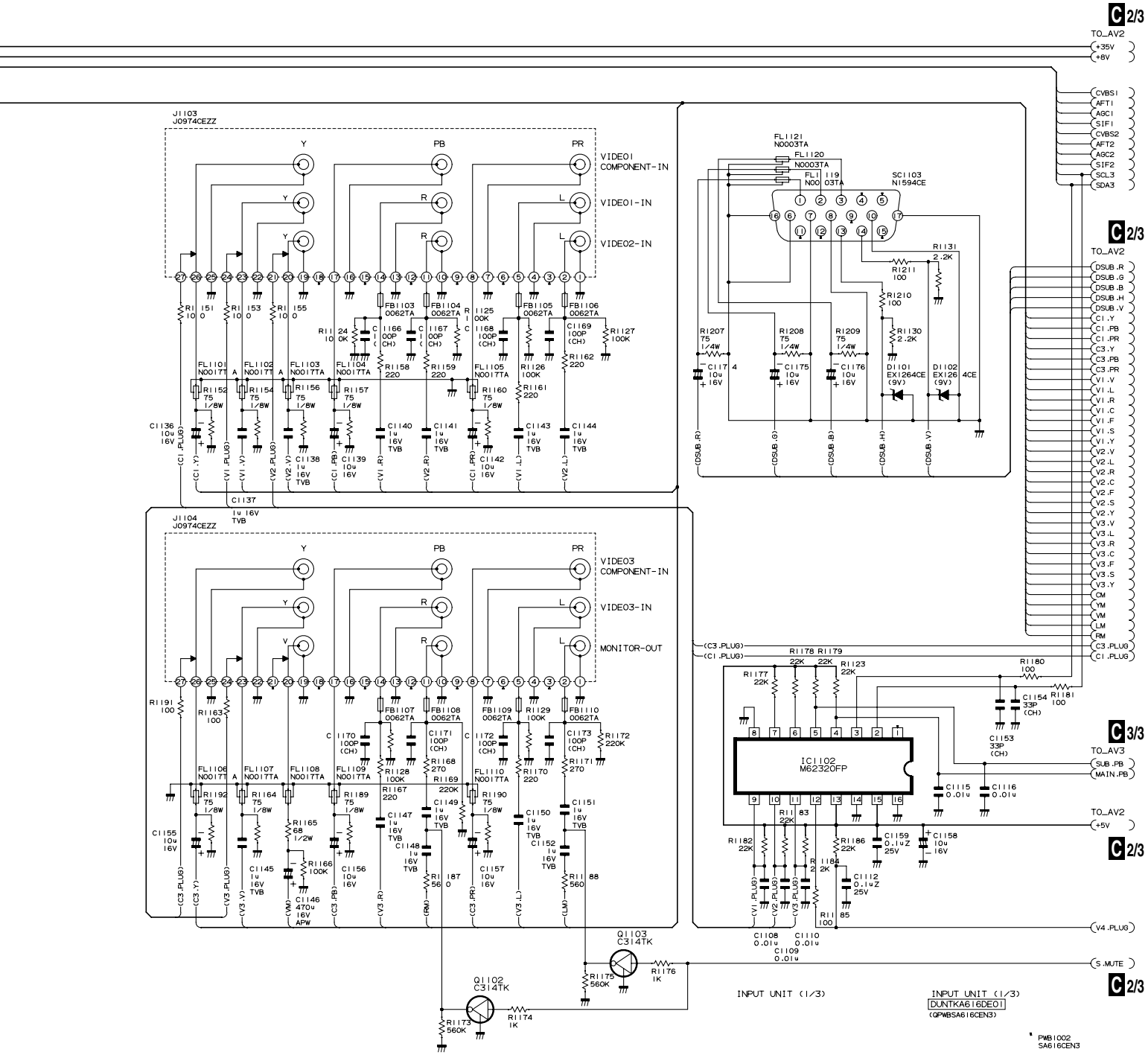



J3401
Z0102PEZZ
V
L
R
R3425
100
R3433
100
C3414
10P
(CH)
FL3412
N0017TA
C3415
10u
16V
R3445
4.7
1/4W
C3432
100P
(CH)
C3411
10u
16V
R3446
1K
C3412
10u
16V
FB3405
0062TA
R3428
1K
FB3406
0062TA
R3429
1K
R3447
1K
C3433
1000P
R3430
100K
R3431
100K
C3434
1000P
C3416
0.1uZ
25V
R34 27
0
C3430
56P
(CH)
C3431
56P
(CH)
R3432
75
1/8W
C3417
10P
(CH)
FB3407
0062TA
FL3413
N0017TA
R3434
75
1/4W
C3418
10u
16V
R3448
4.7
1/4W
C3435
100P
(CH)
FL3414
N0017TA
C3420
0.01u
C3421
0.01u
R3435
10K
R3436
270KF
C3422
0.01u
R3437
75
1/8W
C3423
0.1uZ
25V
P3402
N0428FJ
TO_AV2
1 V4_PLUG
2 V4_Y
3 GND
4 V4_C
5 GND
6 V4_SPLUG
7 V4_S2PLUG
8 V4_V
9 GND
10 V4_L
11 GND
12 V4_R
13 GND
14 5V(A)
15 PC_L
16 GND
17 PC_R
18 GND
PC_SIN
J3403
J0047CEZZ
FB3409
0062TA
R3456
1K
1/10W
R3455
1K
1/10W
C3427
10u
25V
APW
C3426
10u
25V
APW
C3436
1000P
C3437
1000P
C3428
100P
(CH)
R3443
100K
R3442
100K
C3429
100P
(CH)
FRONT UNIT
DUNTKA617DE01
(QPWBSA617CEZZ)
*2
PWB1003
SA617CEZZ
C2/3 P1301

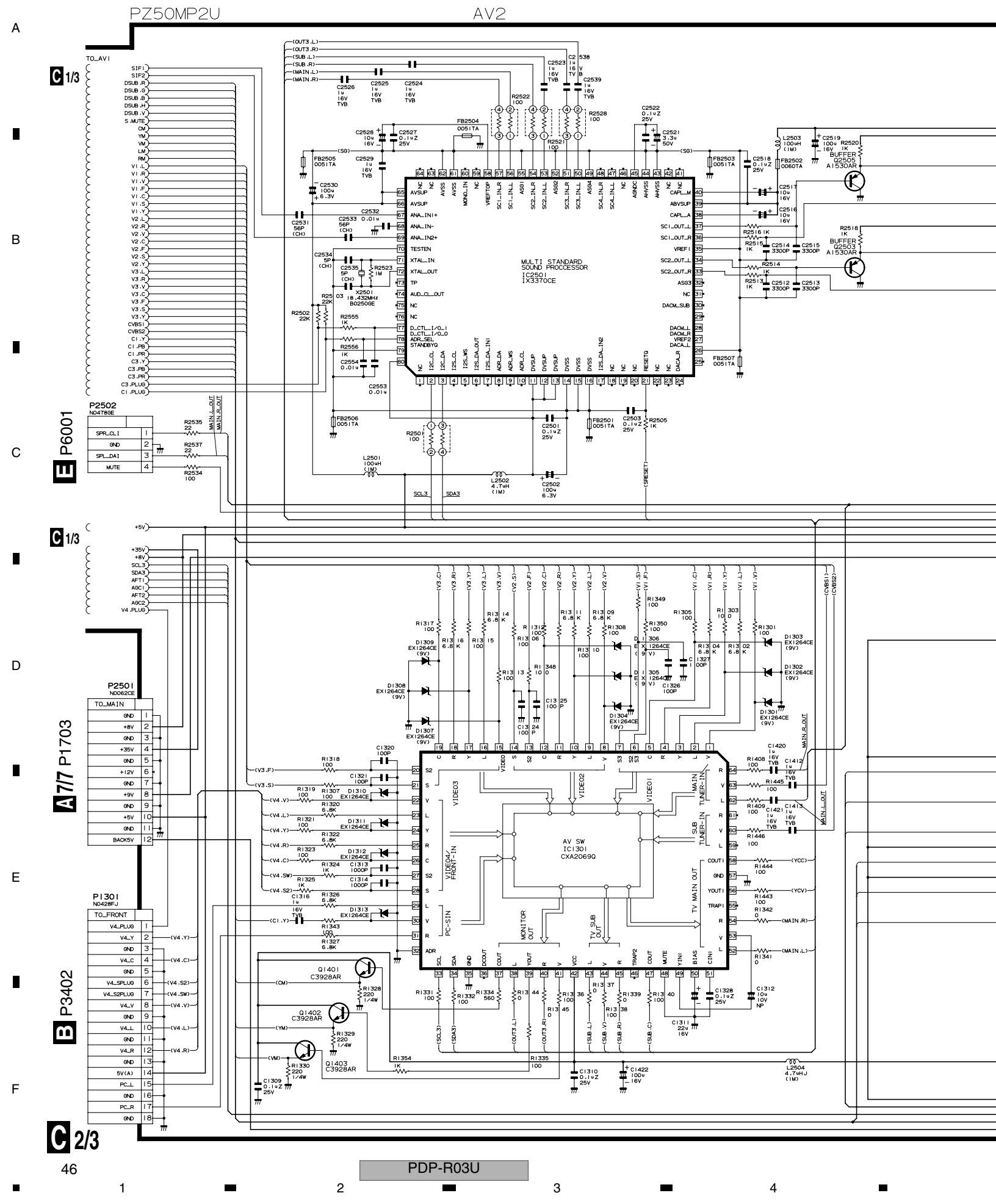
3.17 AV UNIT (1/3)

C 1/3 AV UNIT (DUNTKA616DE01)




C 2/3
TO_AV2
+35V
+8V
J1103
J0974CEZZ
VIDEO1 COMPONENT-IN
VIDEO1-IN
VIDEO2-IN
J1104
J0974CEZZ
VIDEO3 COMPONENT-IN
VIDEO3-IN
MONITOR-OUT
CVBS1
AFT1
AGC1
SIF1
CVBS2
AFT2
AGC2
SIF2
SCL3
SDA3
DSUB.R
DSUB.G
DSUB.B
DSUB.H
DSUB.V
C1.Y
C1.PB
C1.PR
C3.Y
C3.PB
C3.PR
V1.V
V1.L
V1.R
V1.C
V1.F
V1.S
V2.Y
V2.V
V2.L
V2.R
V2.C
V2.F
V2.S
V3.Y
V3.V
V3.L
V3.R
V3.C
V3.F
V3.S
CM
YM
VM
LM
RM
C3.PLUG
C1.PLUG
IC1102
M62320FP
C 3/3
TO_AV3
SUB.PB
MAIN.PB
TO_AV2
+5V
V4.PLUG
S.MUTE
Q1103
C314TK
Q1102
C314TK
INPUT UNIT (1/3)
INPUT UNIT (1/3)
DUNTKA616DE01
(QPWBSA616CEN3)
PWB1002
SA616CEN3

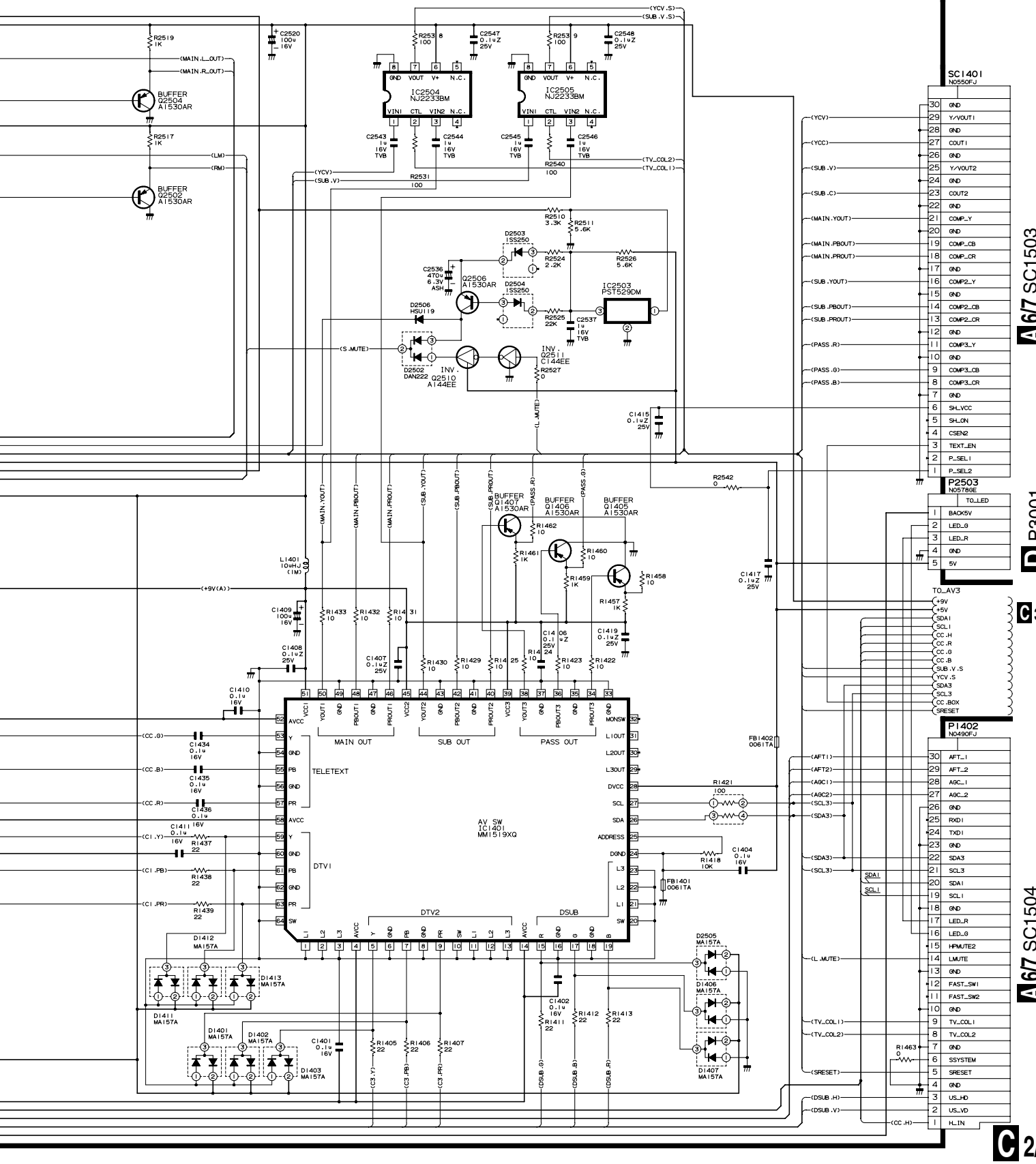
3.18 AV UNIT (2/3)



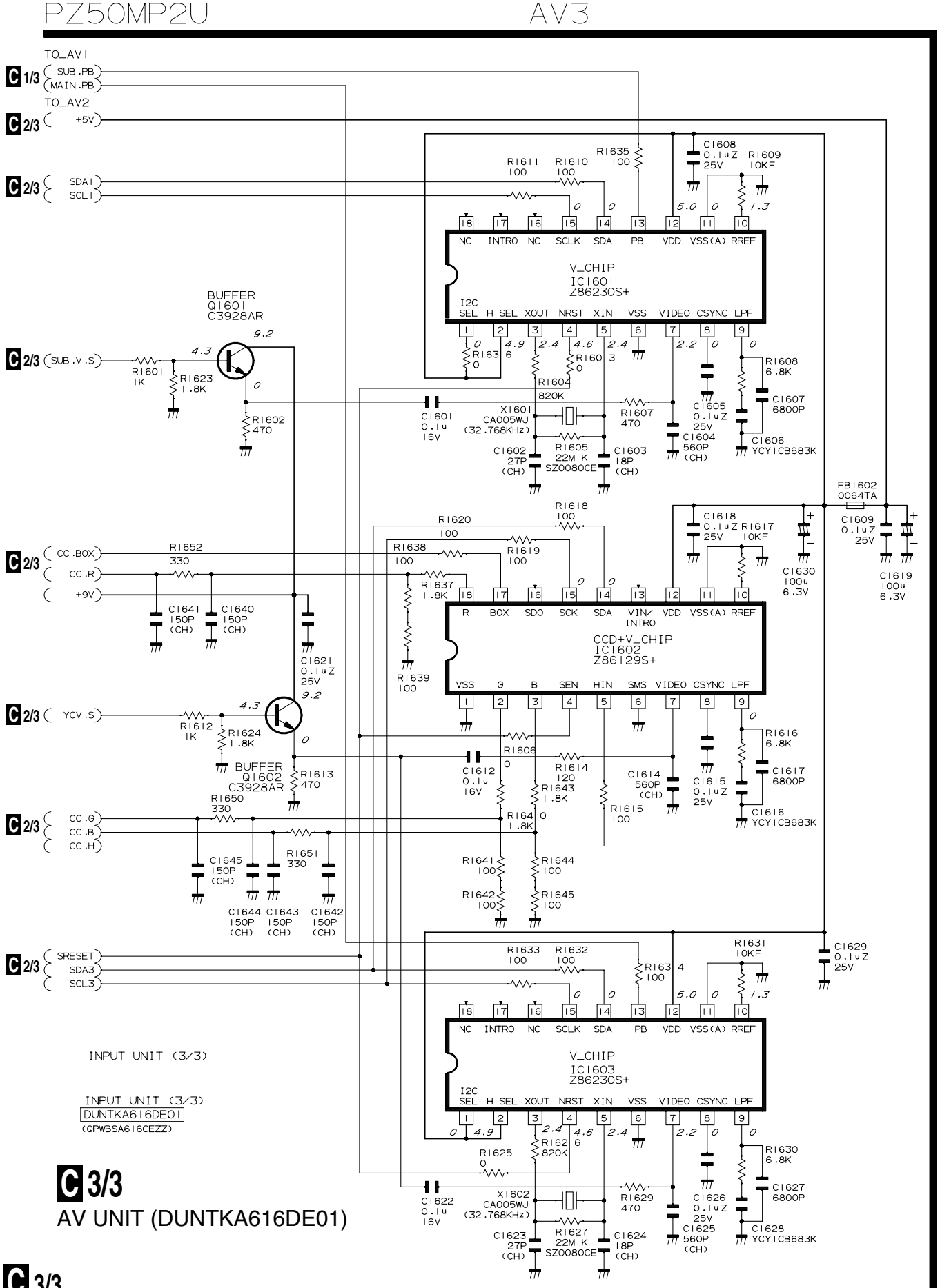
INPUT UNIT (2/3)

INPUT UNIT (2/3)
DUNTKA616DE01
(QPWBSA616CEZZ)

C 2/3 AV UNIT (DUNTKA616DE01)

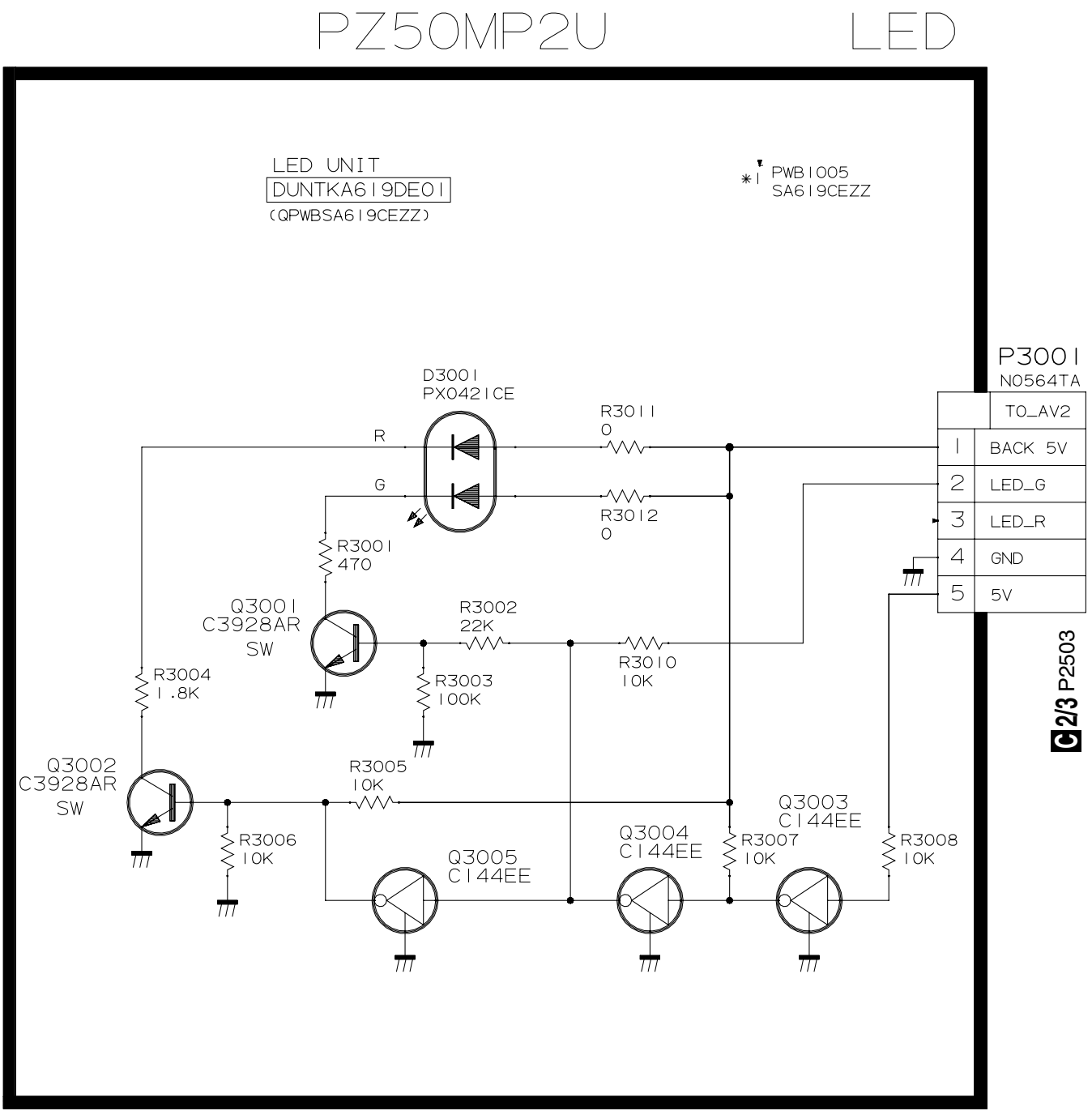


3.19 AV UNIT (3/3)

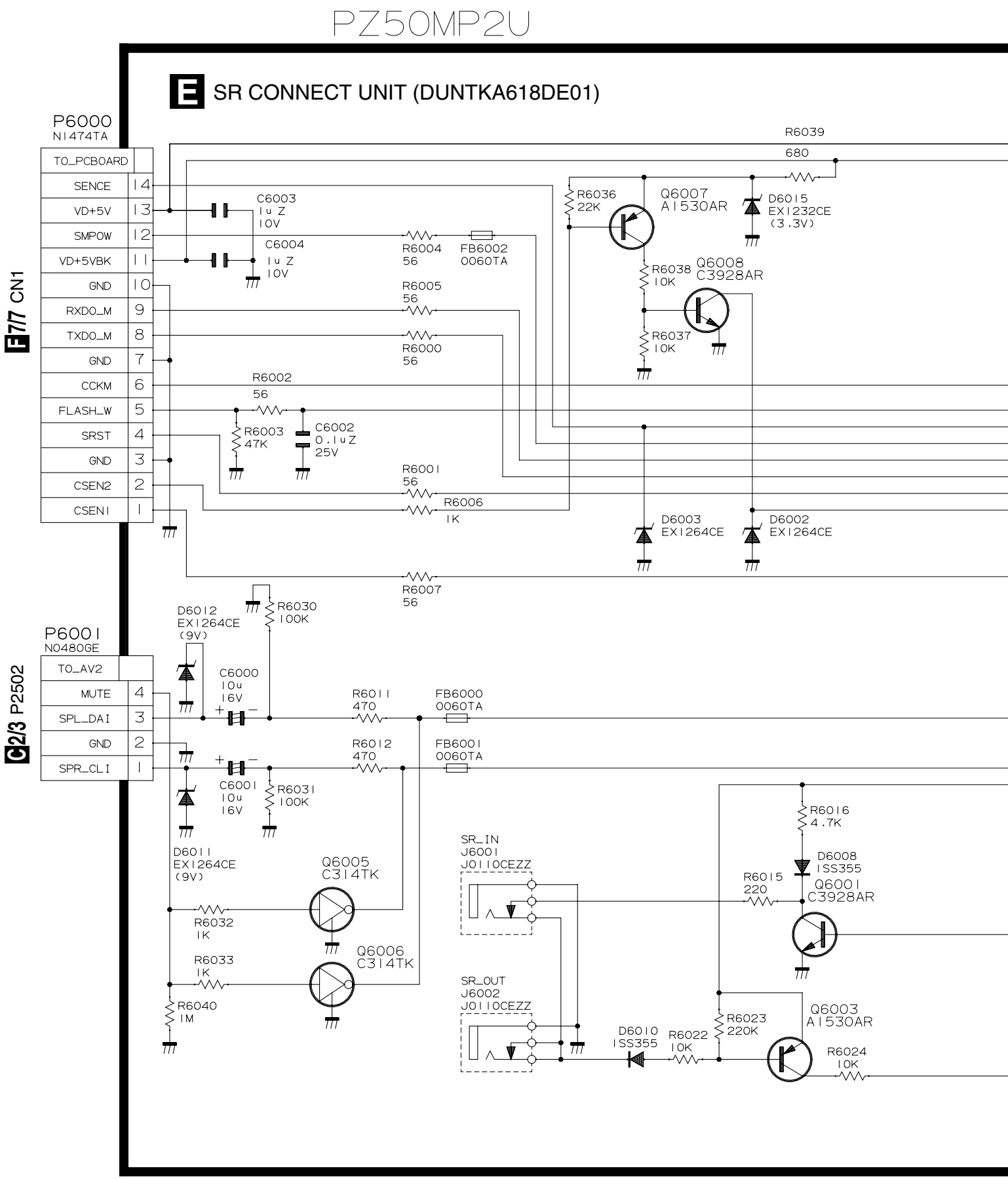


3.20 LED UNIT

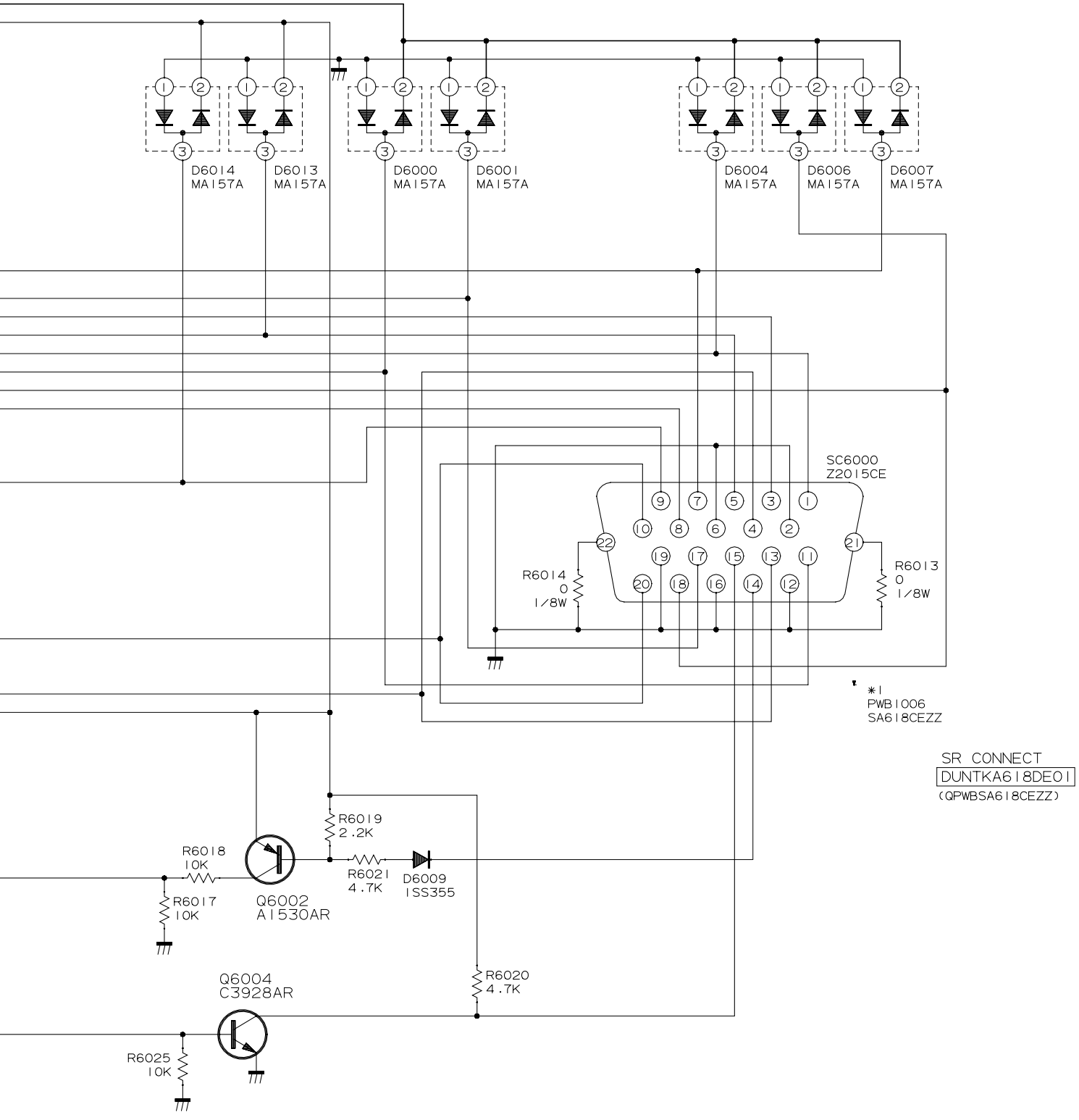
D LED UNIT (DUNTKA619DE01)



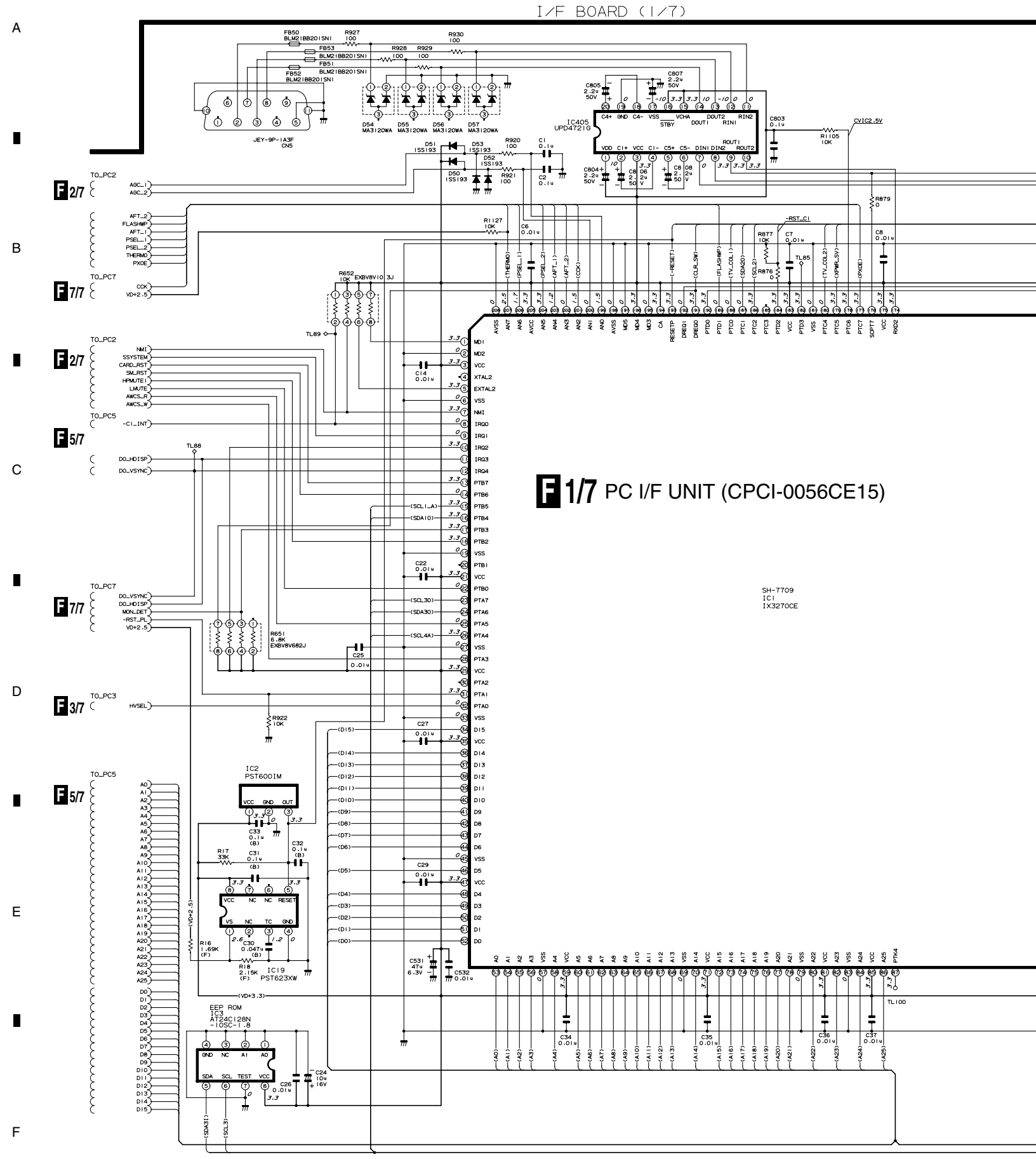
3.21 SR CONNECT UNIT

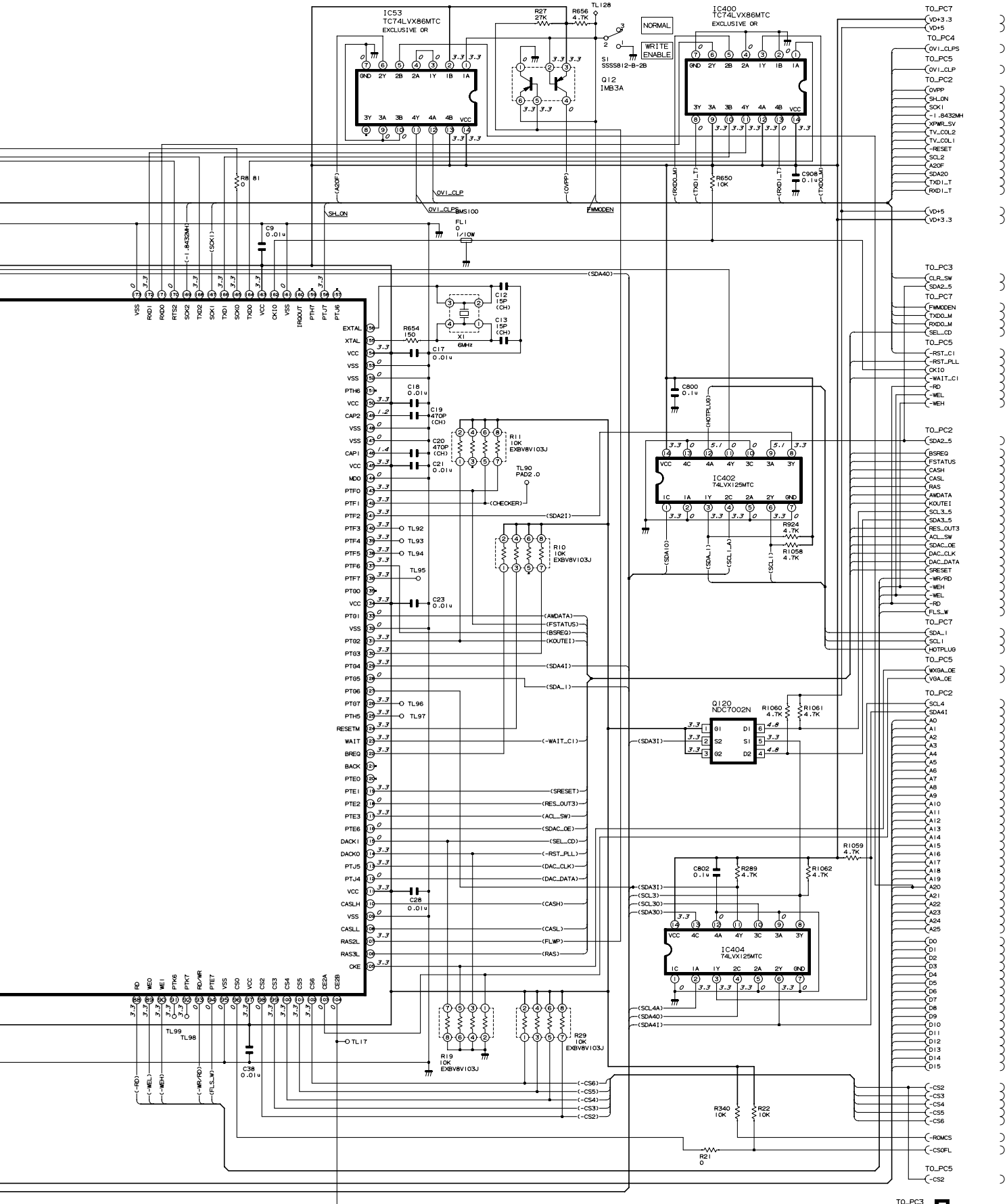


SR

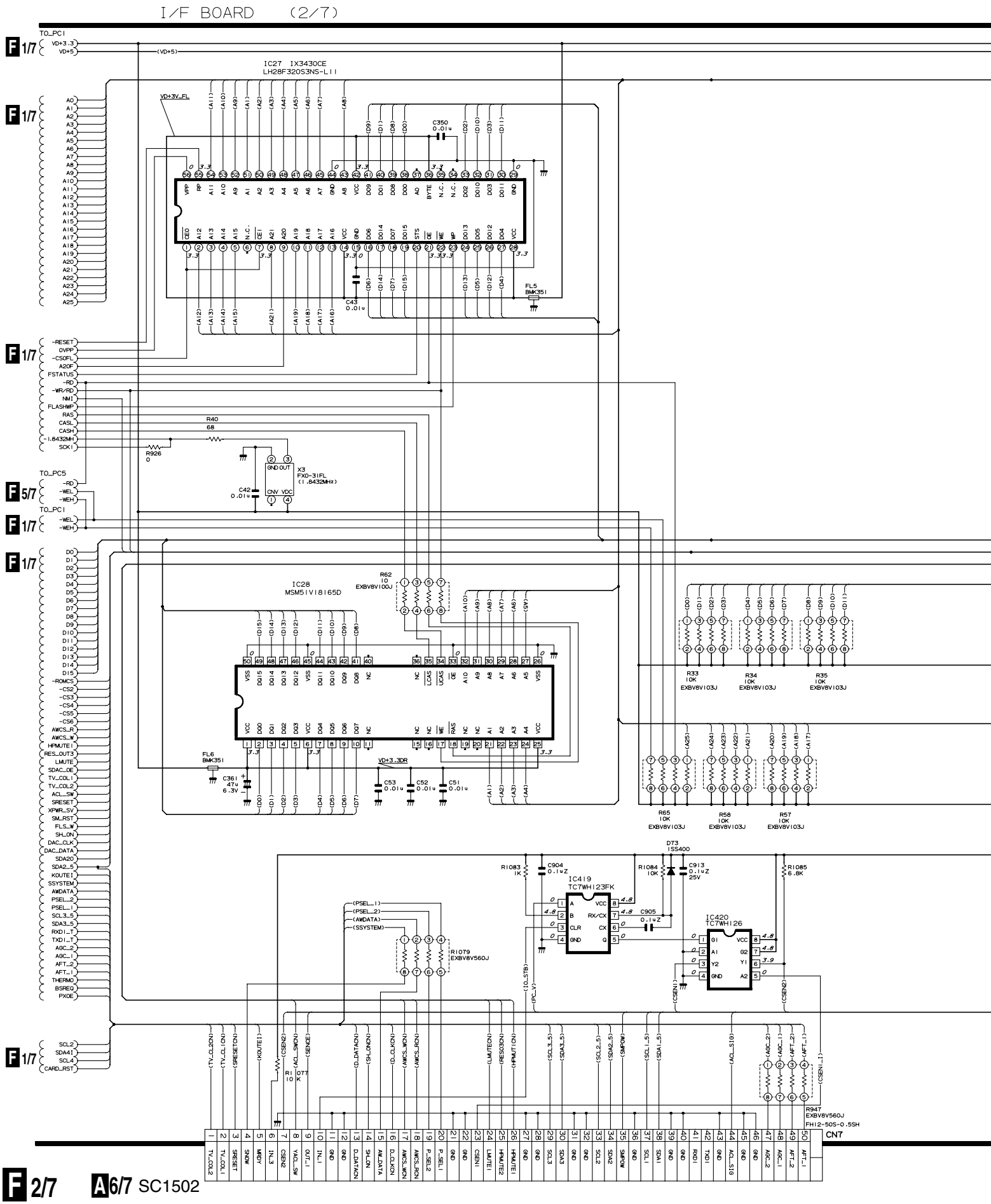

D6014
MA157A
D6013
MA157A
D6000
MA157A
D6001
MA157A
D6004
MA157A
D6006
MA157A
D6007
MA157A
SC6000
Z2015CE
R6014
0
1/8W
R6013
0
1/8W
*1
PWB1006
SA618CEZZ
SR CONNECT
DUNTKA618DE01
(QPWBSA618CEZZ)
R6019
2.2K
R6018
10K
R6021
4.7K
D6009
1SS355
R6017
10K
Q6002
A1530AR
R6020
4.7K
Q6004
C3928AR
R6025
10K

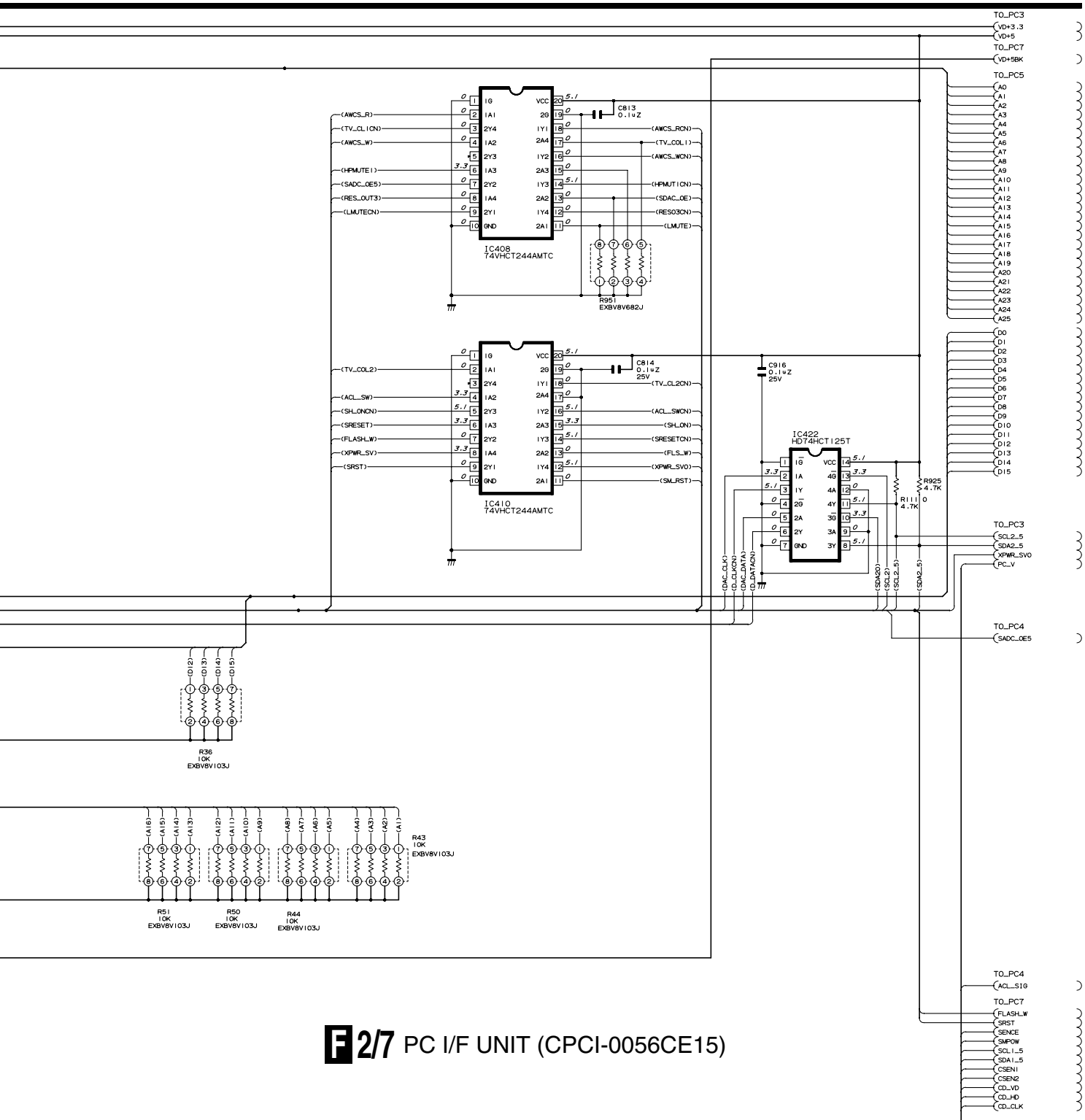
3.22 PC I/F UNIT (1/7)




IC53
TC74LVX86MTC
EXCLUSIVE OR
IC400
TC74LVX86MTC
EXCLUSIVE OR
NORMAL
WRITE ENABLE
S1
SSSS812-B-2B
Q12
IMB3A
IC402
T4LVX125MTC
IC404
T4LVX125MTC
Q120
NDC7002N
TO_PC7
TO_PC4
TO_PC5
TO_PC2
TO_PC3
F 7/7
F 4/7
F 5/7
F 2/7
F 3/7
F 1/7

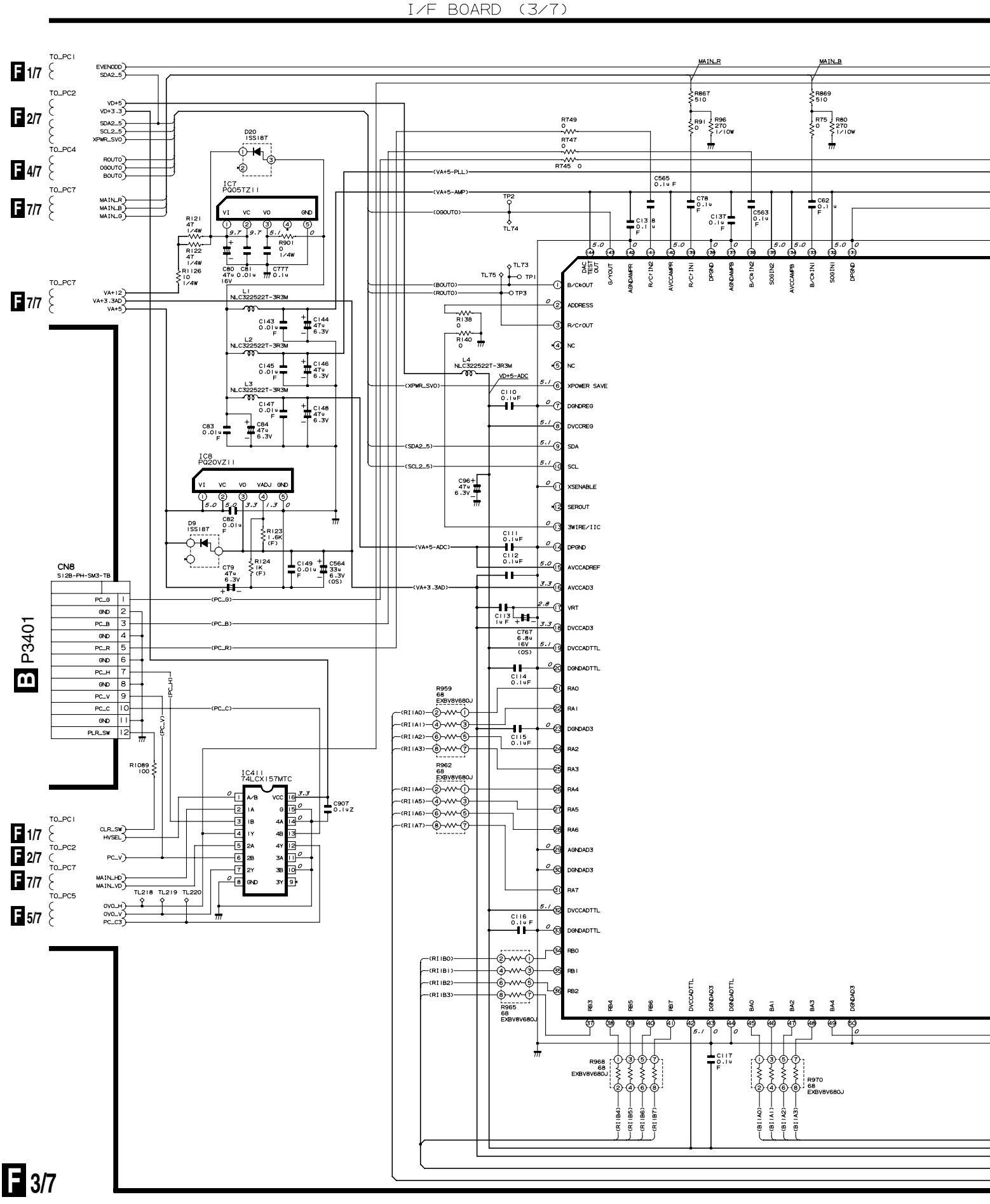
3.23 PC I/F UNIT (2/7)





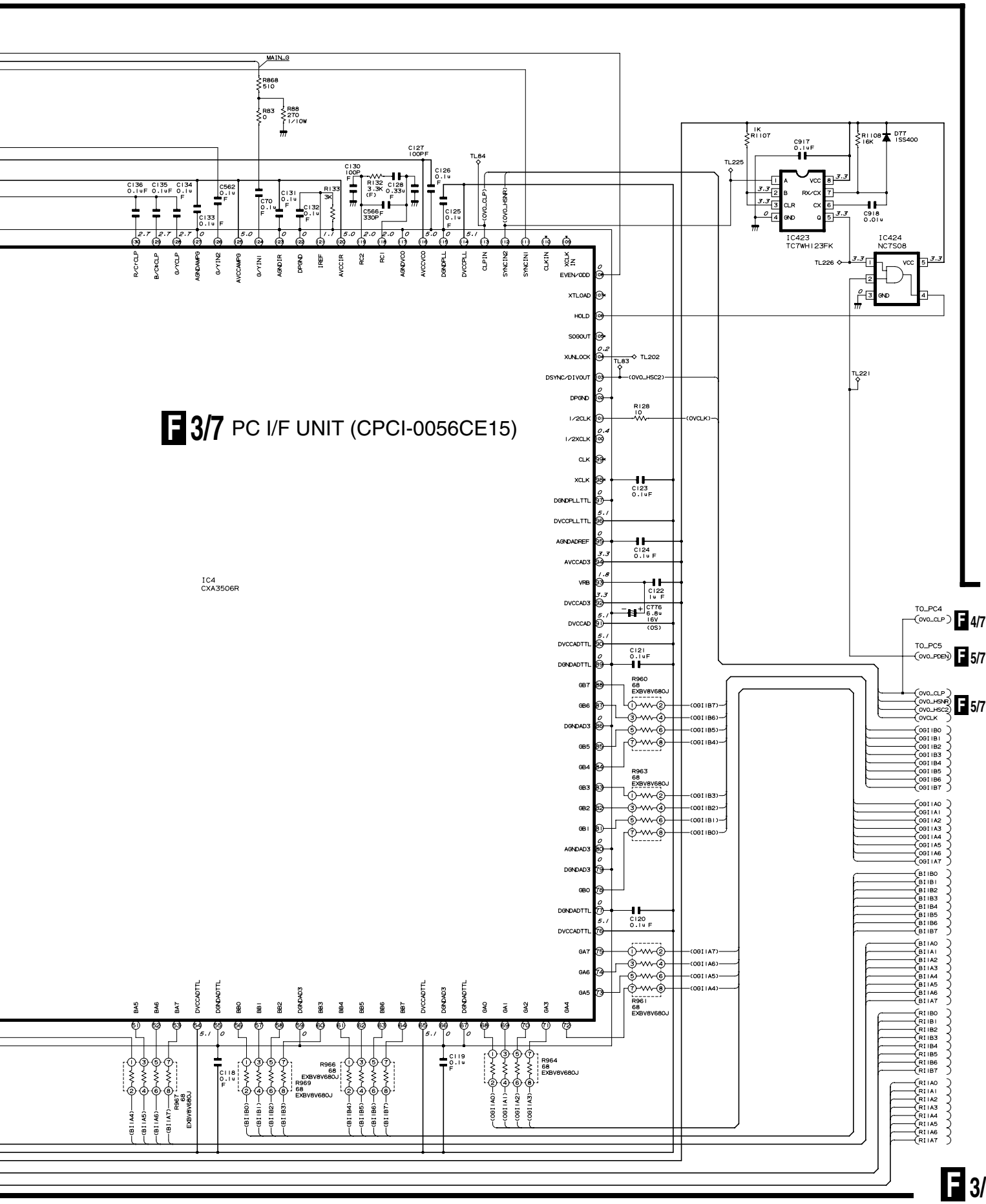
F 2/7 PC I/F UNIT (CPCI-0056CE15)

3.24 PC I/F UNIT (3/7)

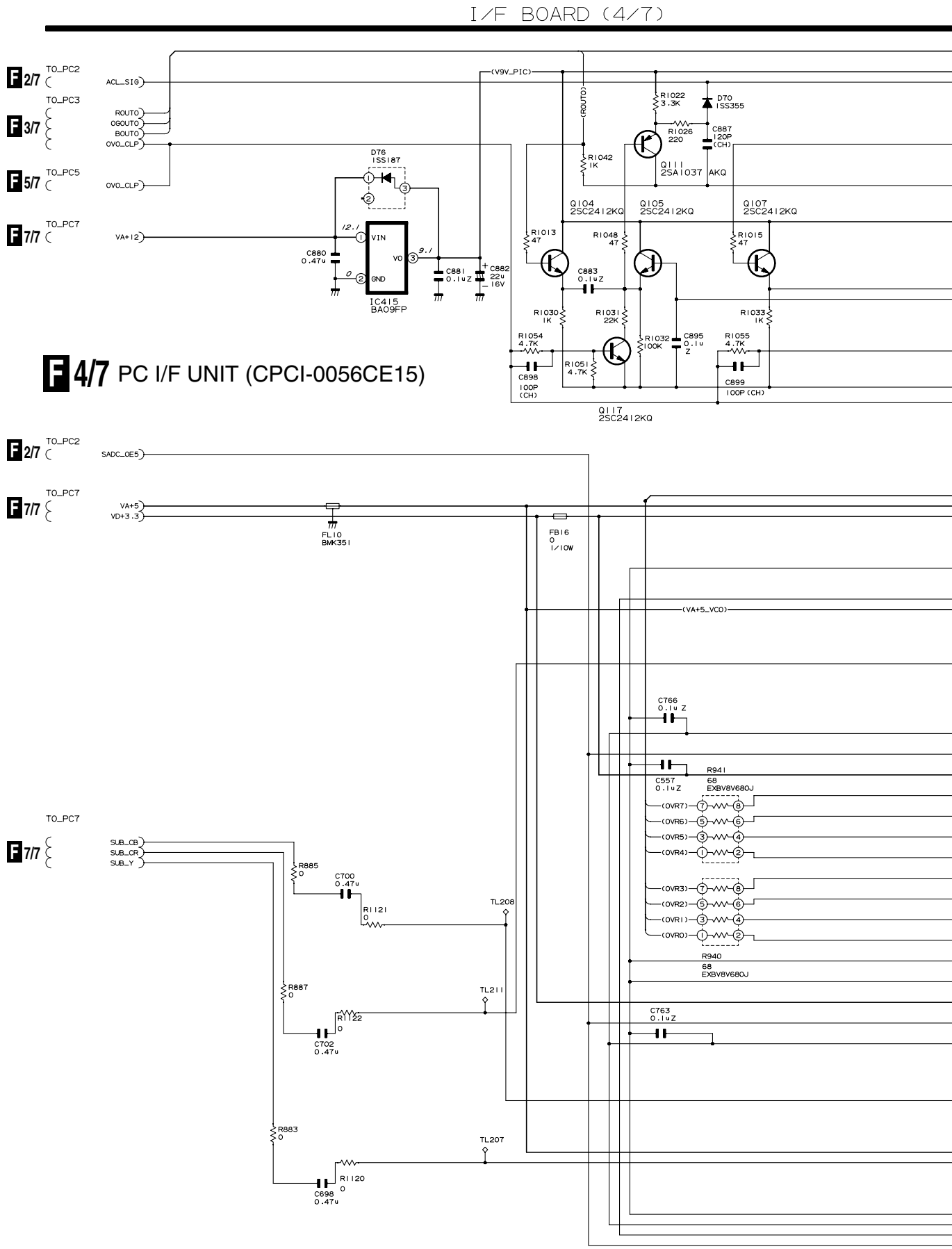


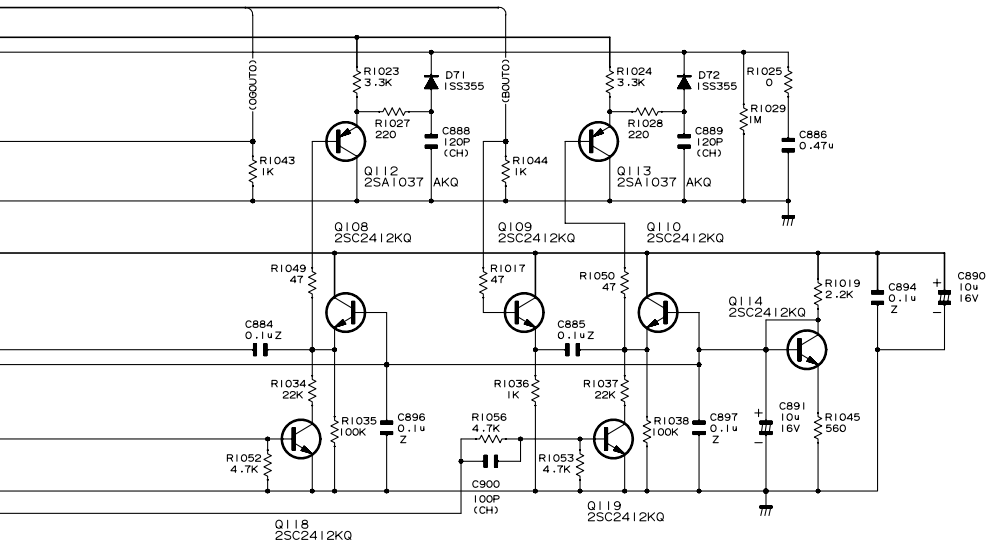
F 3/7

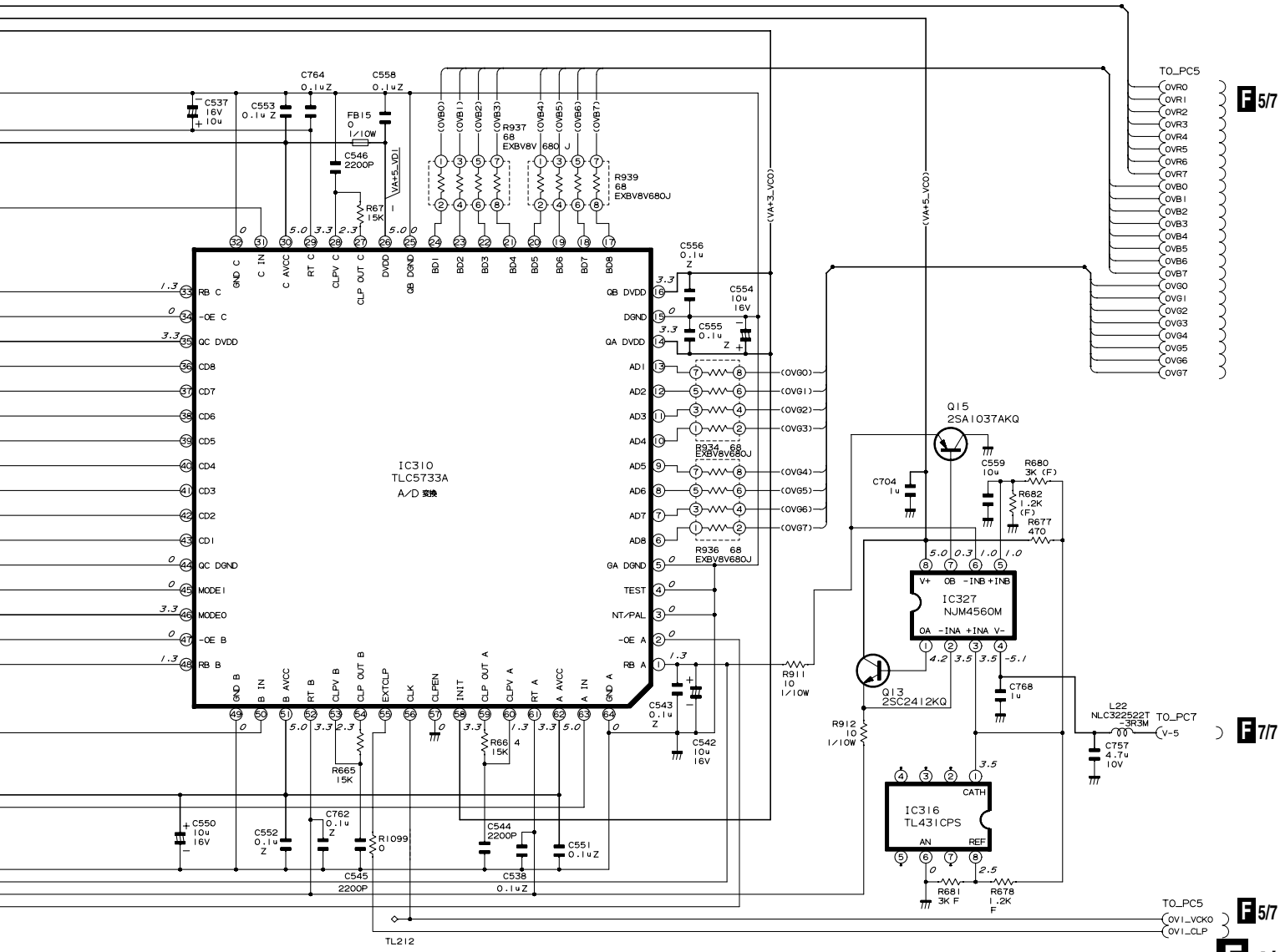
F 3/7 PC I/F UNIT (CPCI-0056CE15)



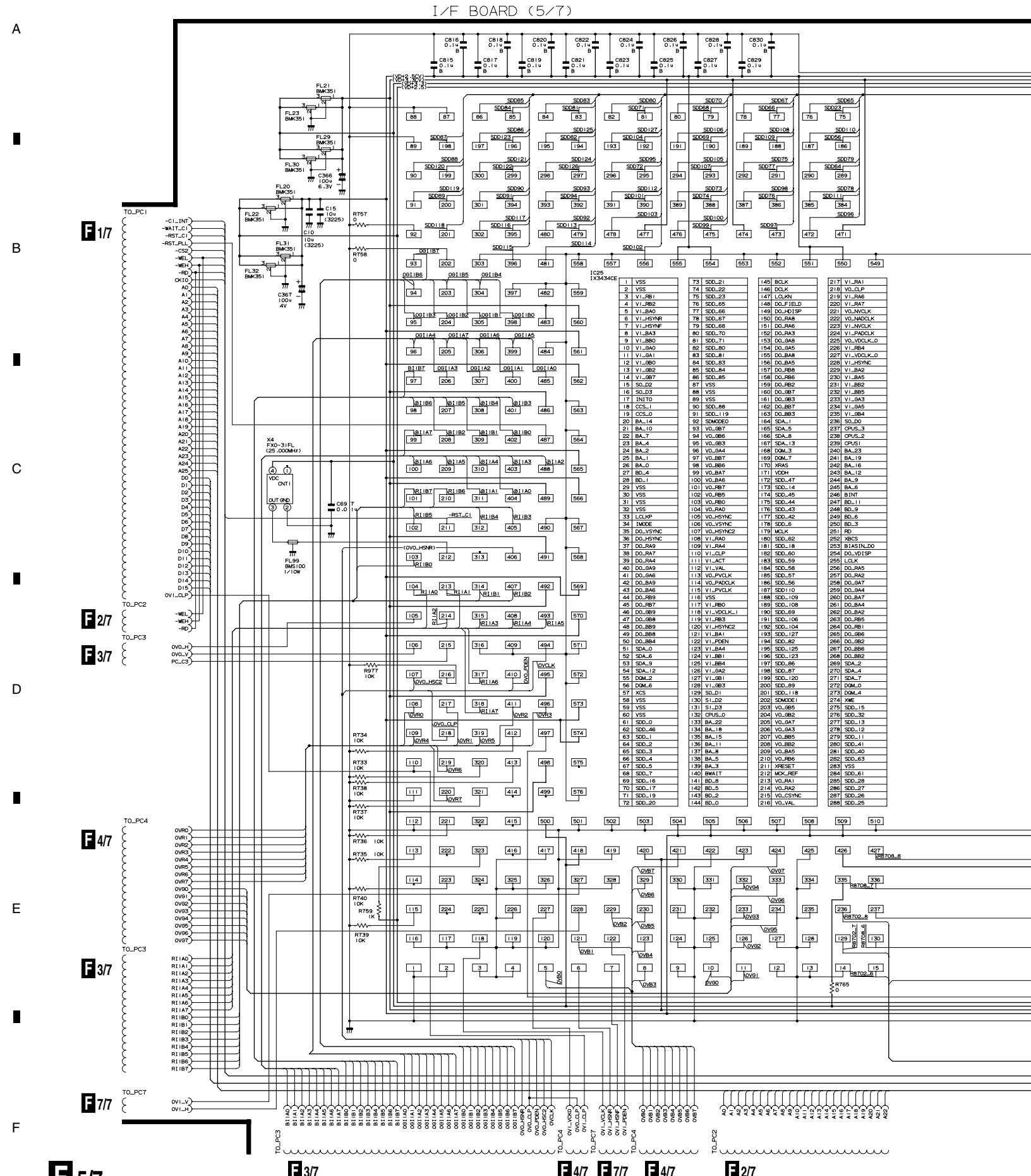
3.25 PC I/F UNIT (4/7)



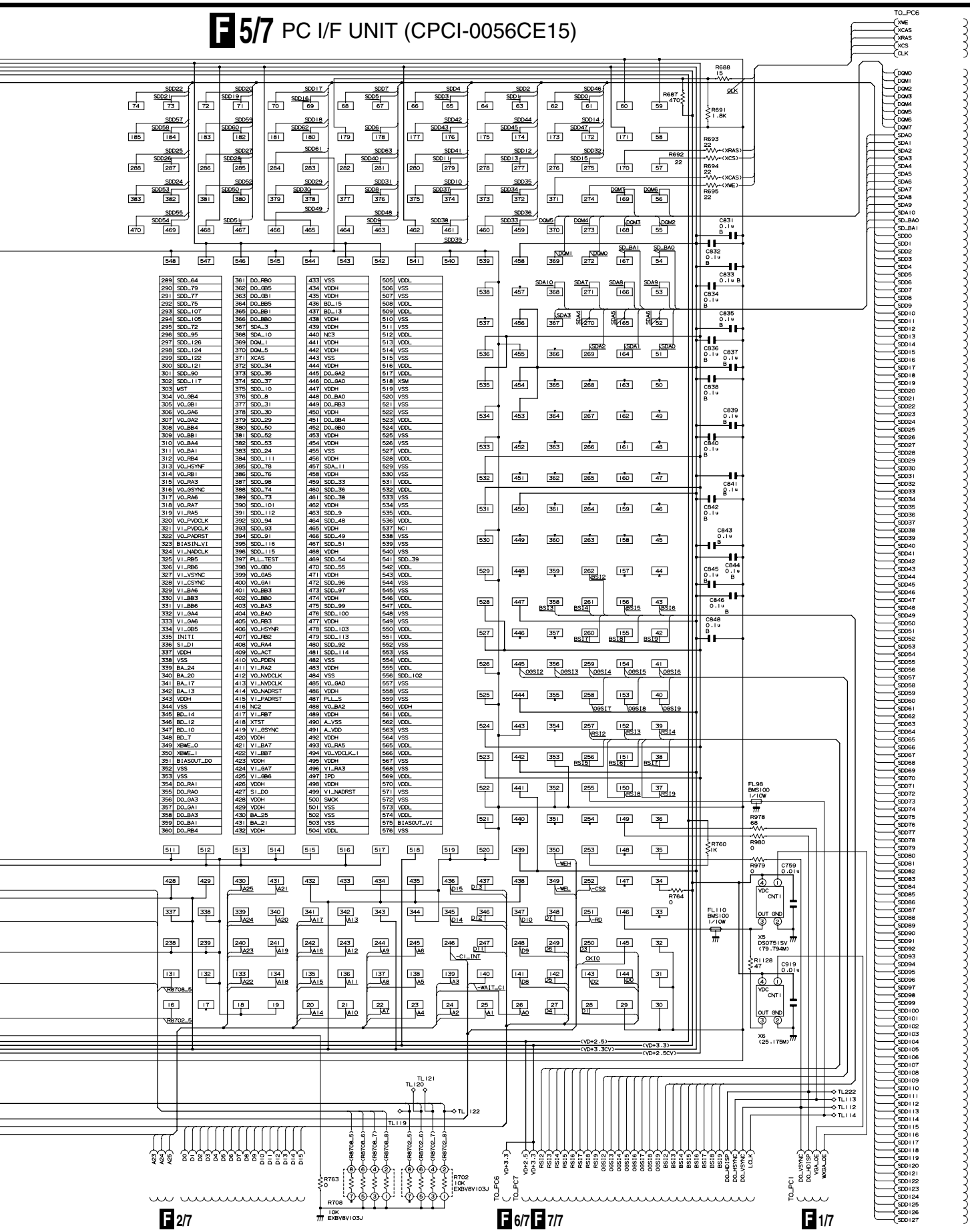

(OGOUT)
(BOUT)
R1023 3.3K
D71 1SS355
R1024 3.3K
D72 1SS355
R1025 0
R1029 1M
C886 0.47u
R1027 220
C888 120P (CH)
R1028 220
C889 120P (CH)
R1043 1K
R1044 1K
Q112 2SA1037 AKQ
Q113 2SA1037 AKQ
Q108 2SC2412KQ
Q109 2SC2412KQ
Q110 2SC2412KQ
Q114 2SC2412KQ
R1049 47
R1017 47
R1050 47
R1019 2.2K
C894 0.1u Z
C890 10u 16V
C884 0.1uZ
C885 0.1uZ
R1034 22K
R1035 100K
C896 0.1u Z
R1036 1K
R1037 22K
R1038 100K
C897 0.1u Z
C891 10u 16V
R1045 560
R1056 4.7K
R1052 4.7K
R1053 4.7K
C900 100P (CH)
Q118 2SC2412KQ
Q119 2SC2412KQ


C764 0.1uZ
C558 0.1uZ
C537 16V 10u
C553 0.1u Z
FB15 0 1/10W
C546 2200P
R67 15K
(VA+5_VDI)
(VA+3_VCO)
(VA+5_VCO)
R937 68 EXBV8V 680 J
R939 68 EXBV8V680J
(OVB0)
(OVB1)
(OVB2)
(OVB3)
(OVB4)
(OVB5)
(OVB6)
(OVB7)
C556 0.1u Z
C554 10u 16V
C555 0.1u Z
IC310 TLC5733A A/D 変換
GND C
C IN
C AVCC
RT C
CLPV C
CLP OUT C
DVDD
GB DGND
BD1
BD2
BD3
BD4
BD5
BD6
BD7
BD8
RB C
-OE C
QC DVDD
CD8
CD7
CD6
CD5
CD4
CD3
CD2
CD1
QC DGND
MODE1
MODE0
-OE B
RB B
GB DVDD
DGND
QA DVDD
AD1
AD2
AD3
AD4
AD5
AD6
AD7
AD8
GA DGND
TEST
NT/PAL
-OE A
RB A
GND B
B IN
B AVCC
RT B
CLPV B
CLP OUT B
EXTCLP
CLK
CLPEN
INIT
CLP OUT A
CLPV A
RT A
A AVCC
A IN
GND A
R936 68 EXBV8V680J
R934 68 EXBV8V680J
(OVG0)
(OVG1)
(OVG2)
(OVG3)
(OVG4)
(OVG5)
(OVG6)
(OVG7)
C543 0.1u Z
C542 10u 16V
R665 15K
R666 15K
C550 10u 16V
C552 0.1u Z
C762 0.1u Z
R1099 0
C545 2200P
C544 2200P
C538 0.1uZ
C551 0.1uZ
TL212
TO_PC5
OVR0
OVR1
OVR2
OVR3
OVR4
OVR5
OVR6
OVR7
OVB0
OVB1
OVB2
OVB3
OVB4
OVB5
OVB6
OVB7
OVG0
OVG1
OVG2
OVG3
OVG4
OVG5
OVG6
OVG7
F 5/7
Q15 2SA1037AKQ
C704 1u
C559 10u
R680 3K (F)
R682 1.2K (F)
R677 470
IC327 NJM4560M
V+ OB -INB +INB
OA -INA +INA V-
Q13 2SC2412KQ
R911 10 1/10W
R912 10 1/10W
C768 1u
L22 NLC322522T -3R3M
TO_PC7
(V-5)
F 7/7
C757 4.7u 10V
IC316 TL431CPS
CATH
AN
REF
R681 3K F
R678 1.2K F
TO_PC5
OVI_VCKO
OVI_CLP
F 5/7
F 4/7

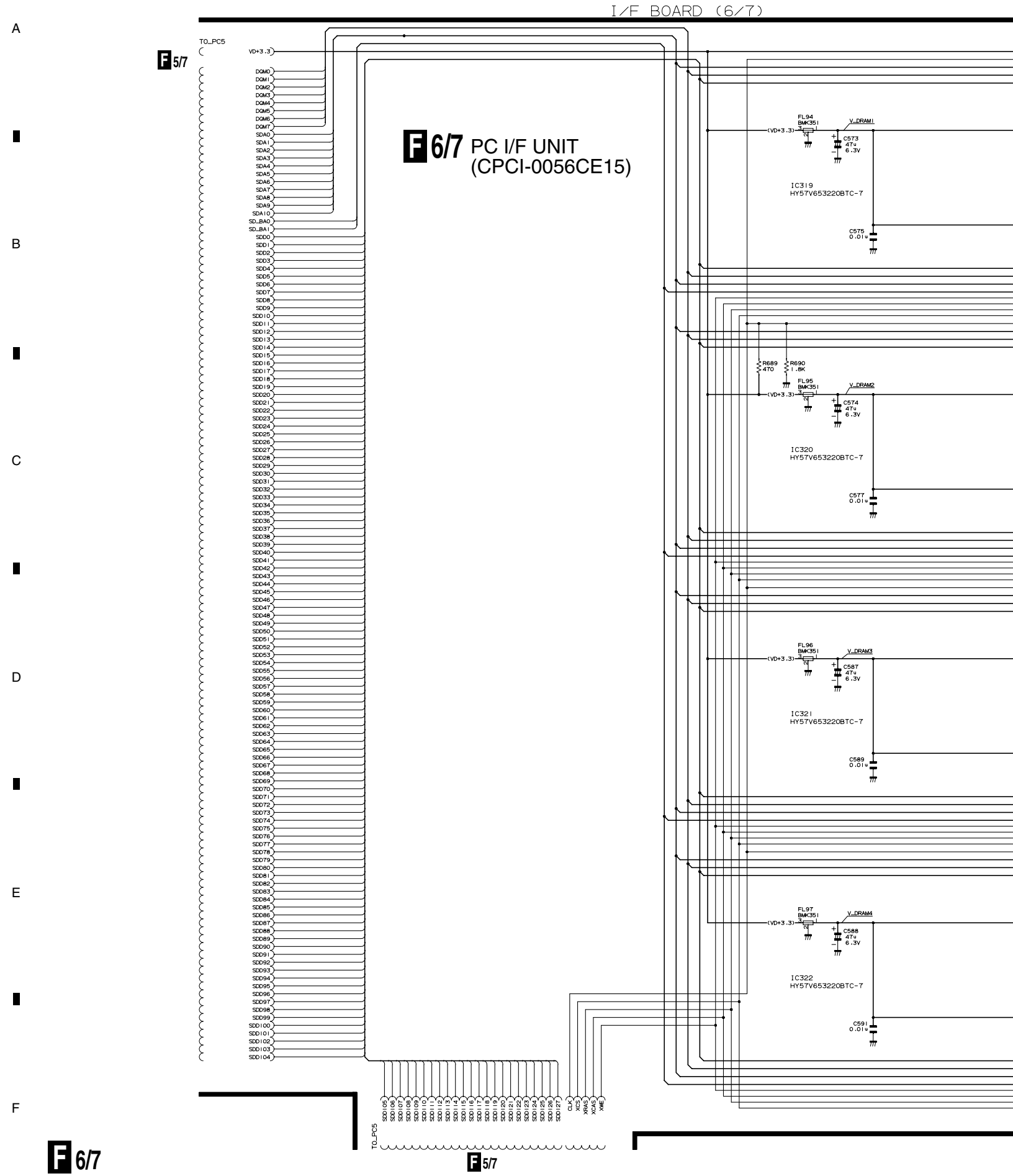
3.26 PC I/F UNIT (5/7)



F 5/7 PC I/F UNIT (CPCI-0056CE15)



3.27 PC I/F UNIT (6/7)



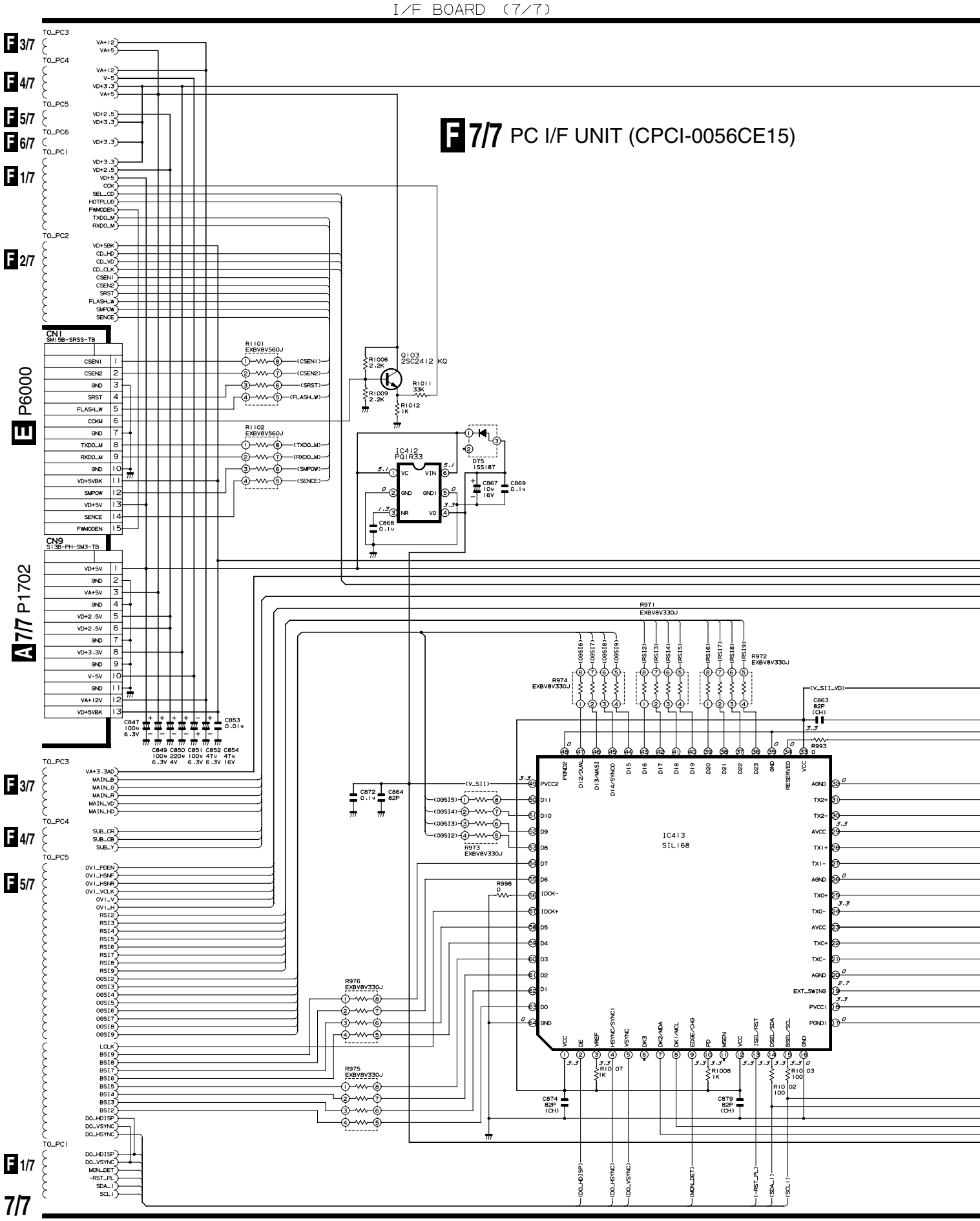
TO_PC7
VD+3.3

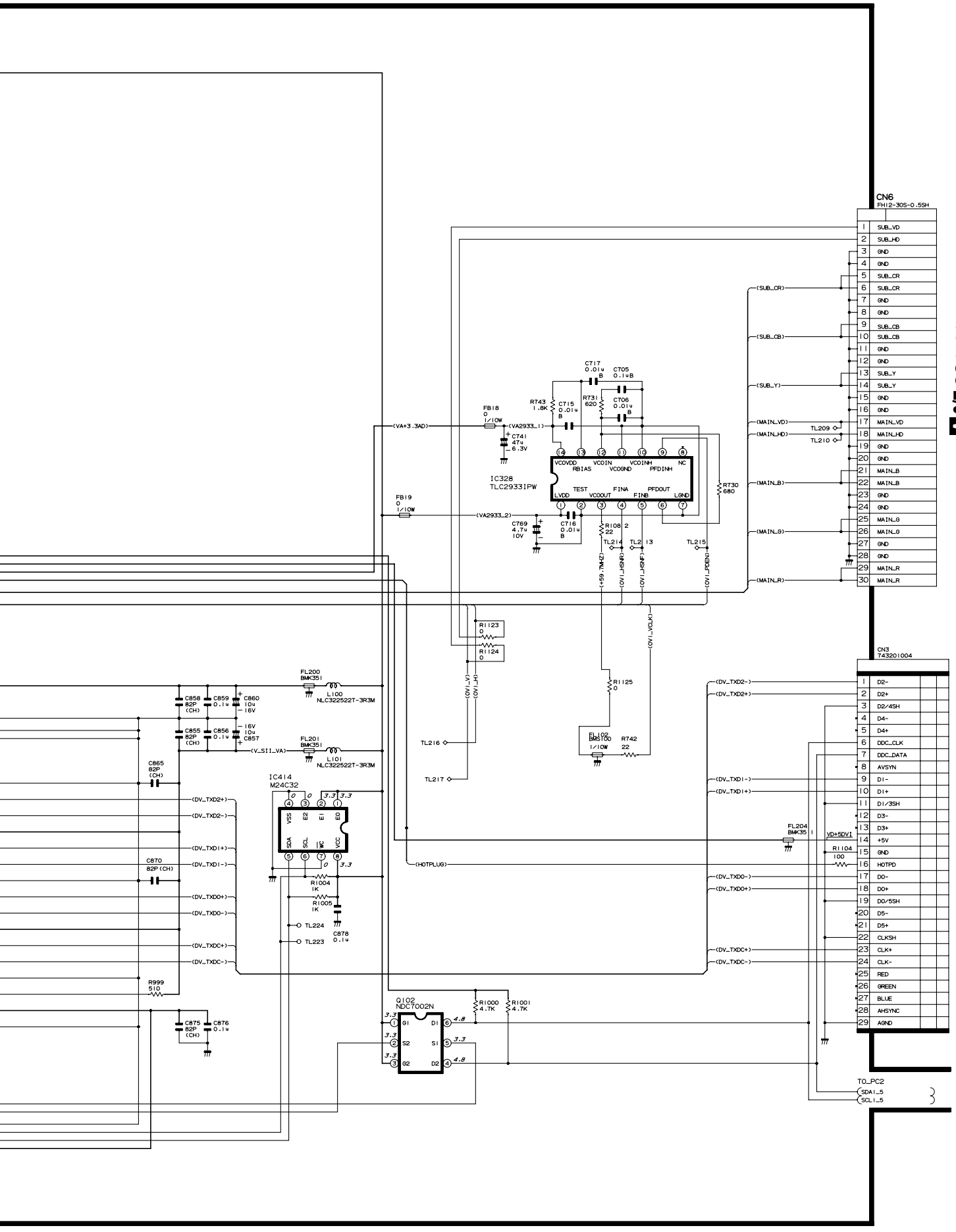
F 7/7



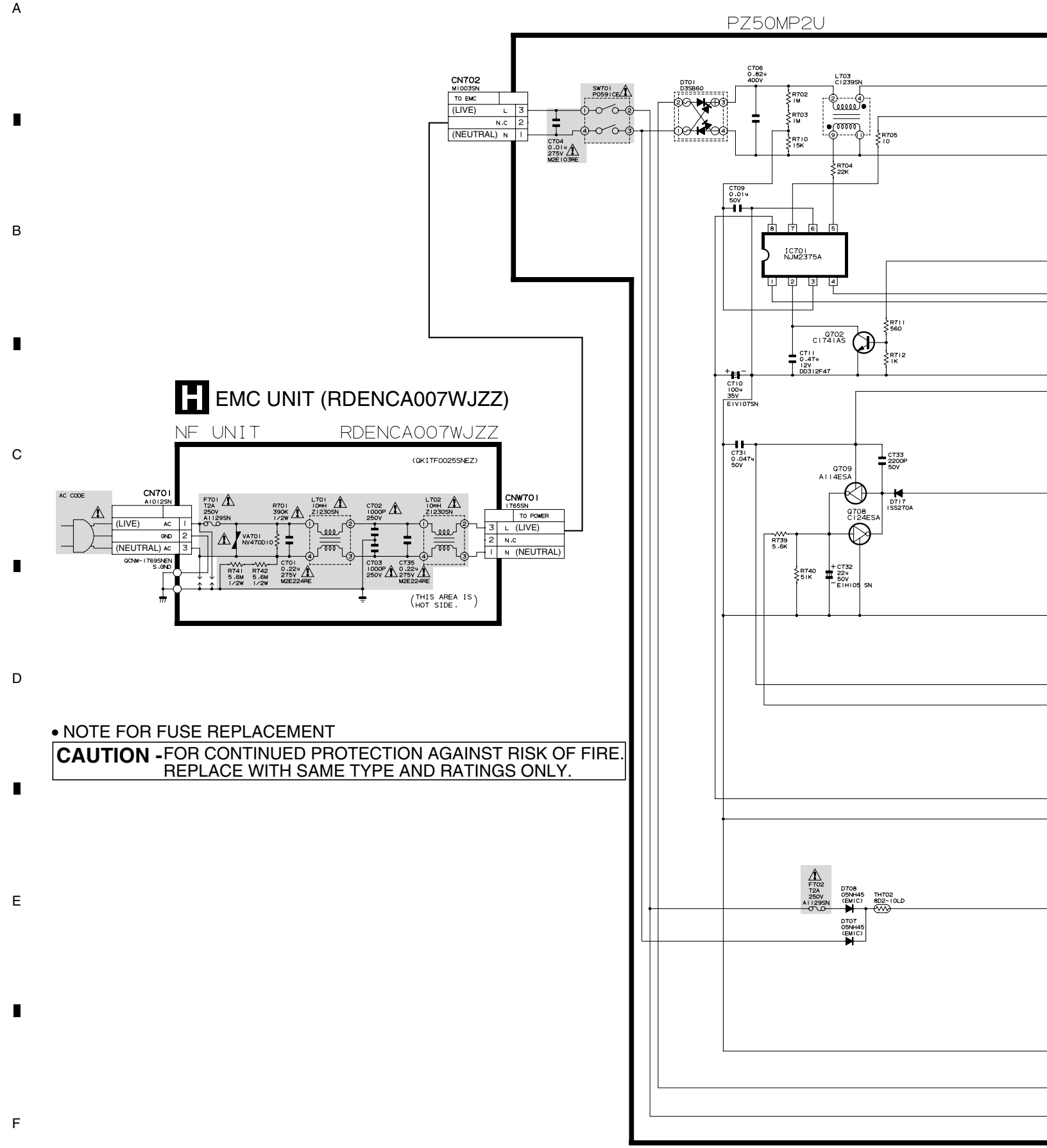
PDP-R03U

3.28 PC I/F UNIT (7/7)




CN6
FH12-30S-0.5SH
SUB_VD
SUB_HD
GND
SUB_CR
SUB_CB
SUB_Y
MAIN_VD
MAIN_HD
MAIN_B
MAIN_G
MAIN_R
IC328
TLC2933IPW
VCOVDD
RBIAS
VCOIN
VCOGND
VCOINH
PFDINH
NC
TEST
FINA
PFDOUT
LVDD
VCOOUT
FINB
LGND
CN3
T43201004
D2-
D2+
D2/4SH
D4-
D4+
DDC_CLK
DDC_DATA
AVSYN
D1-
D1+
D1/3SH
D3-
D3+
+5V
GND
HOTPD
D0-
D0+
D0/5SH
D5-
D5+
CLKSH
CLK+
CLK-
RED
GREEN
BLUE
AHSYNC
AGND
IC414
M24C32
Q102
NDC7002N
TO_PC2
SDA1_5
SCL1_5
A 6/7 SC1501
F 2/7
F 7/7

3.29 POWER and EMC UNITS

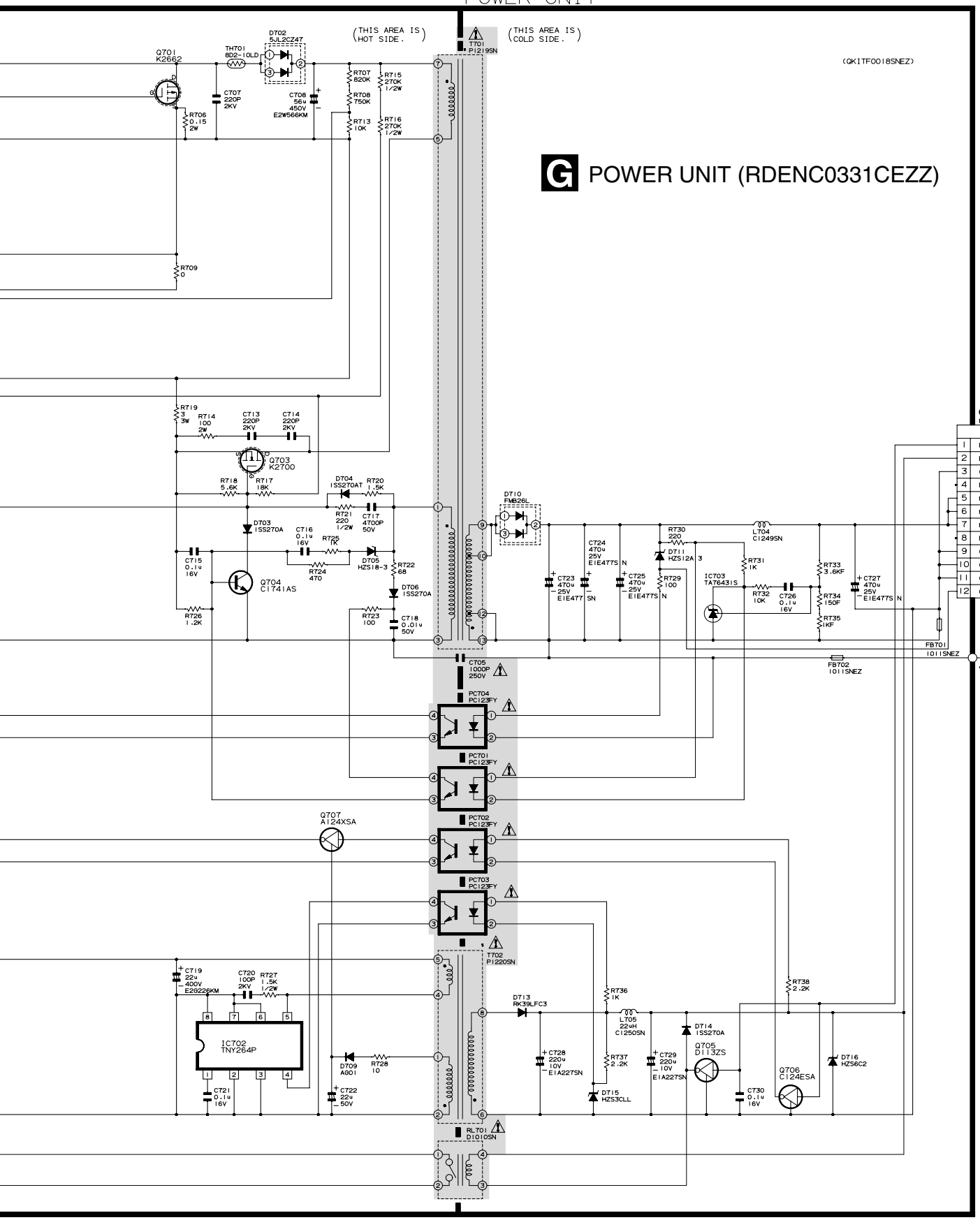


H EMC UNIT (RDENCA007WJZZ)

- NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

POWER UNIT RDENC0331CEZZ



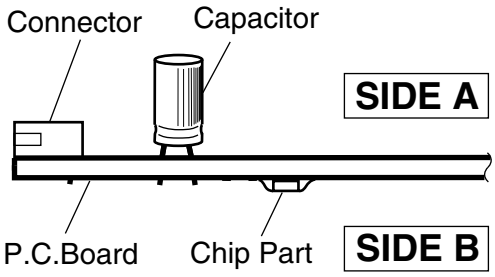
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

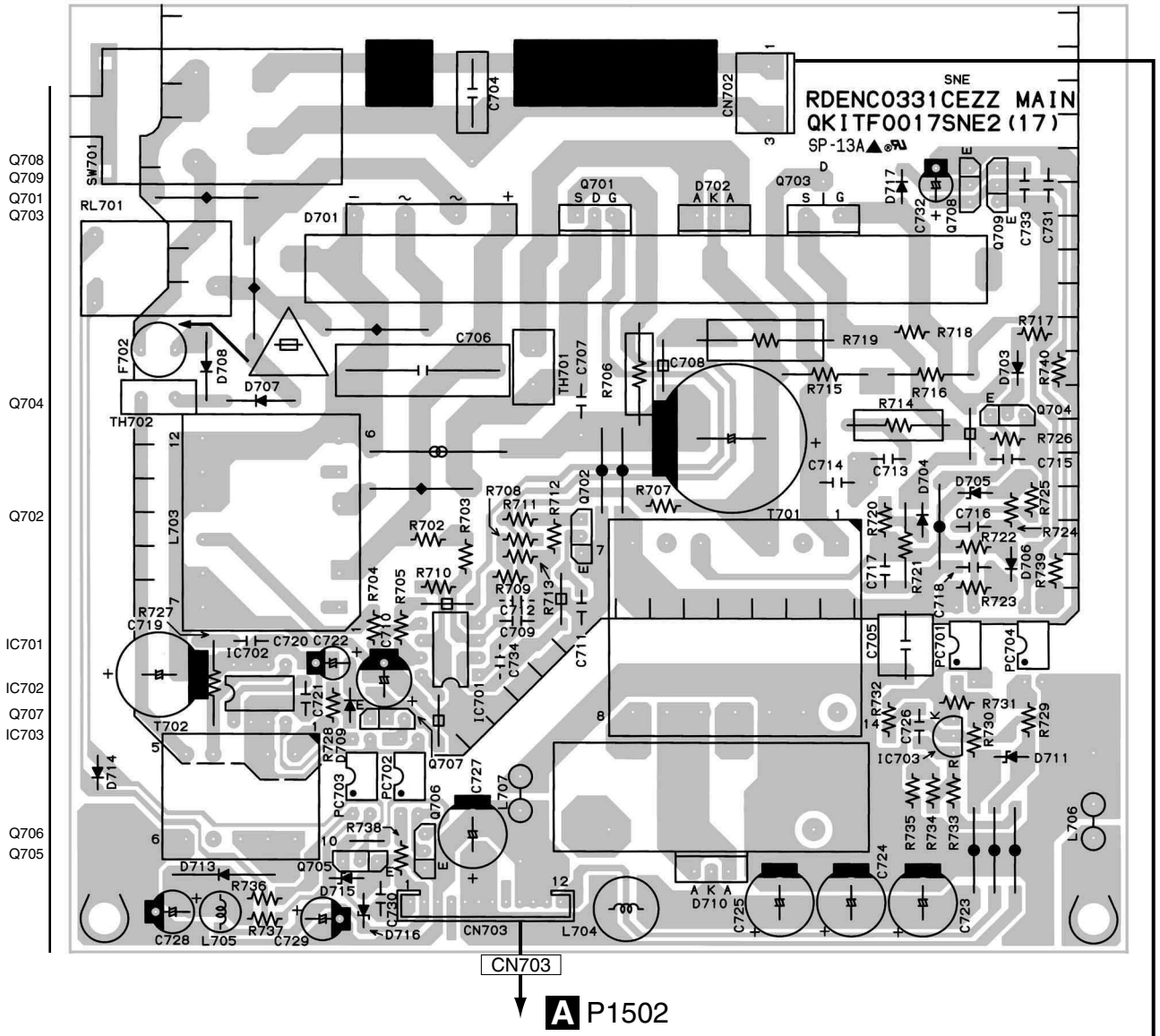


4.1 POWER and EMC UNITS

SIDE A

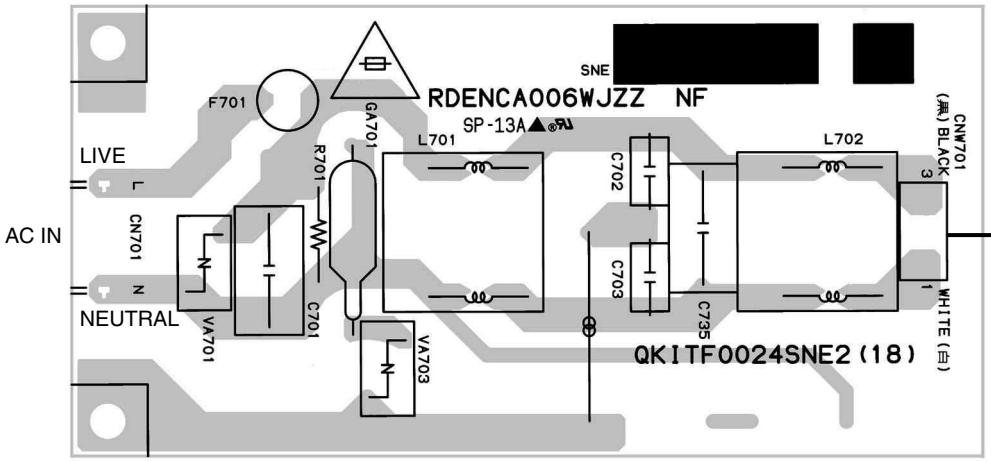
SIDE A

G POWER UNIT



A P1502

H EMC UNIT



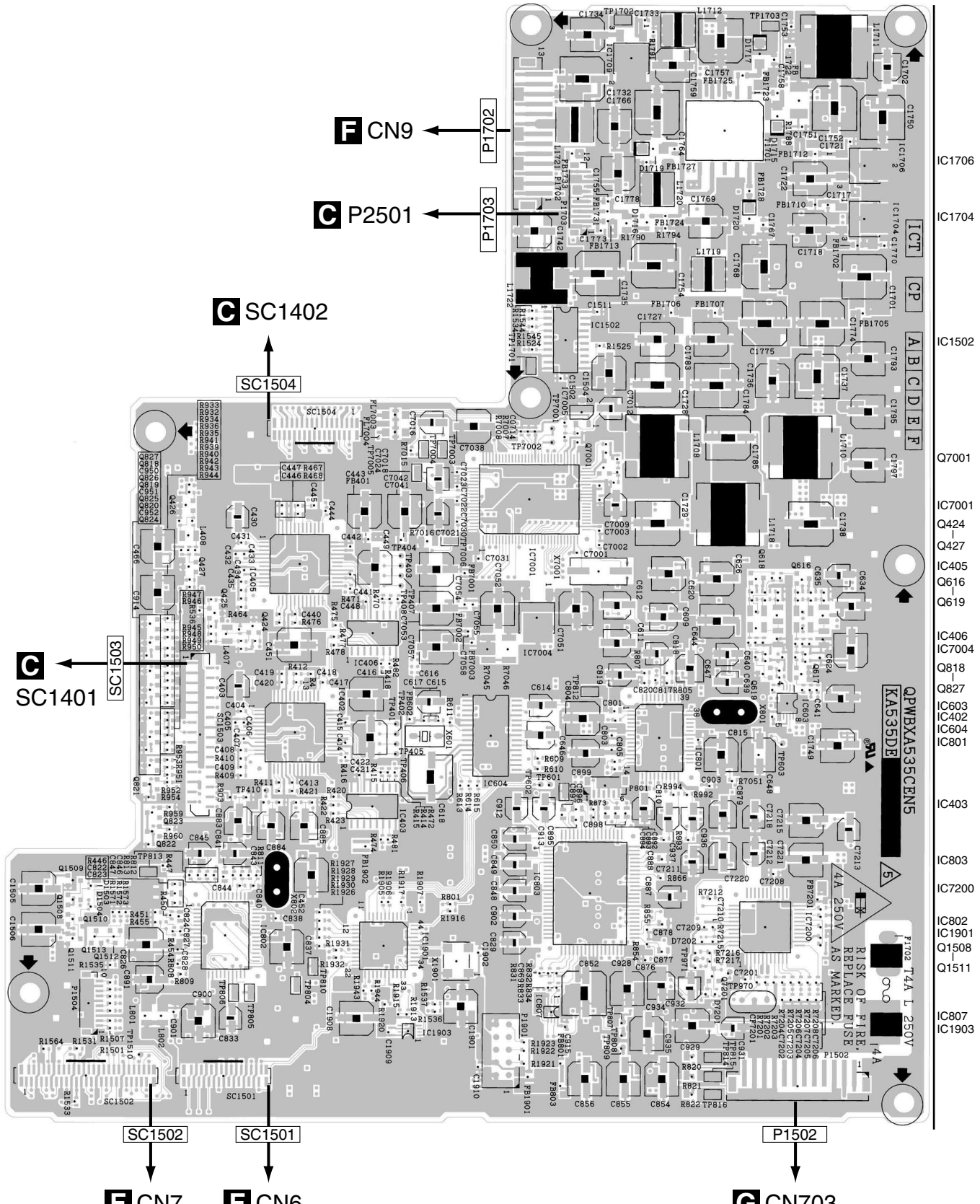
G H

G H

4.2 MAIN UNIT

SIDE A **SIDE A**

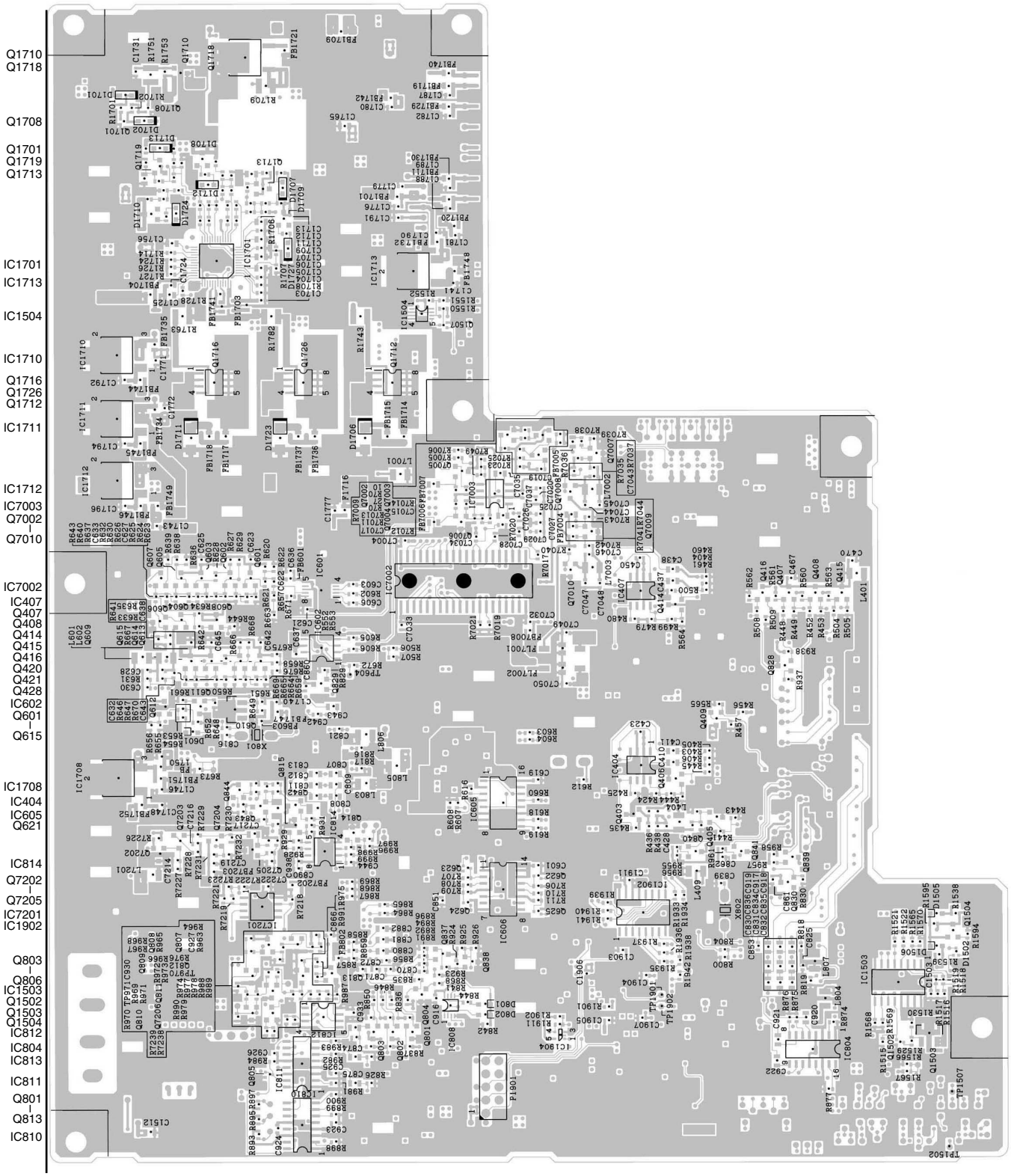
A MAIN UNIT



SIDE B

SIDE B

A MAIN UNIT



A

A

4.3 FRONT, LED and SR CONNECT UNIT

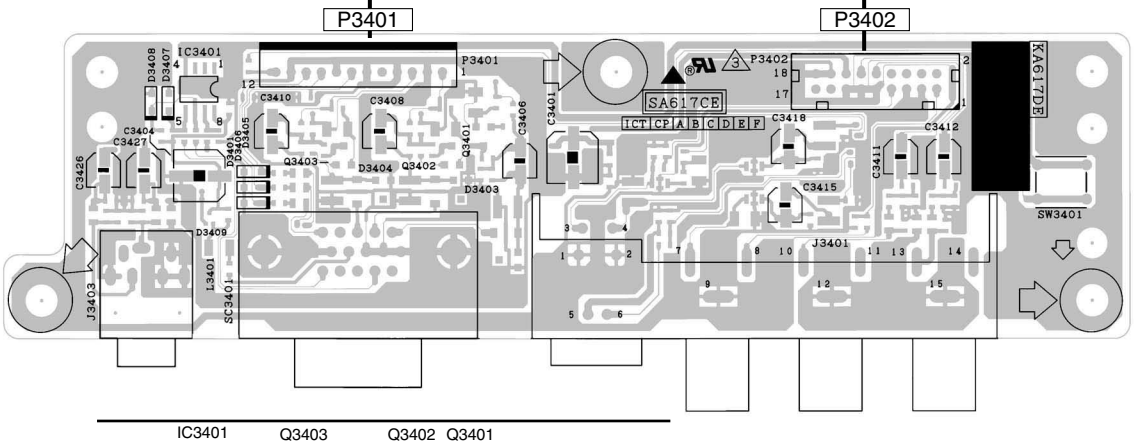
SIDE A

SIDE A

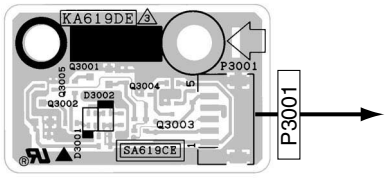
B FRONT UNIT

F CN8

C P1301

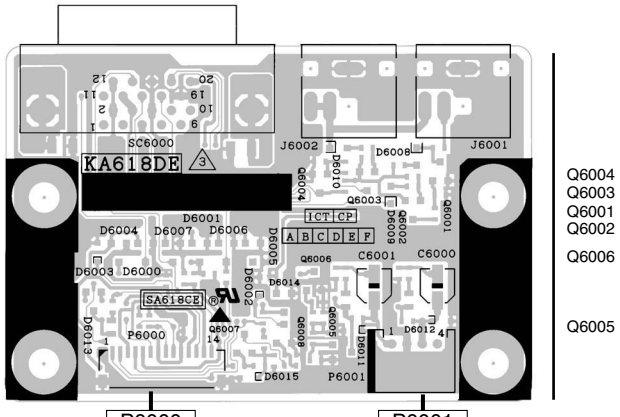


D LED UNIT



C P2503

E SR CONNECT UNIT



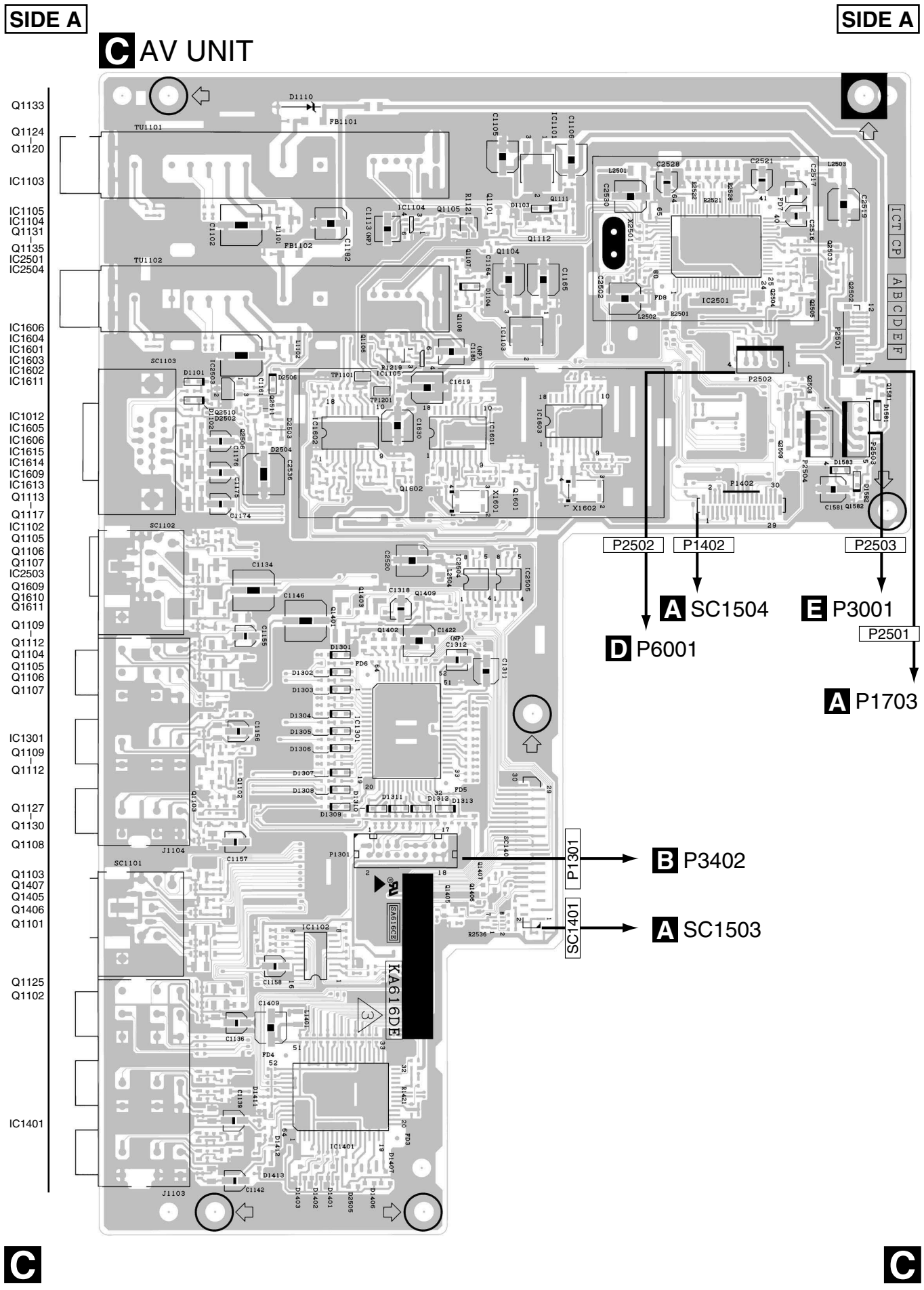
F CN1

C P2502

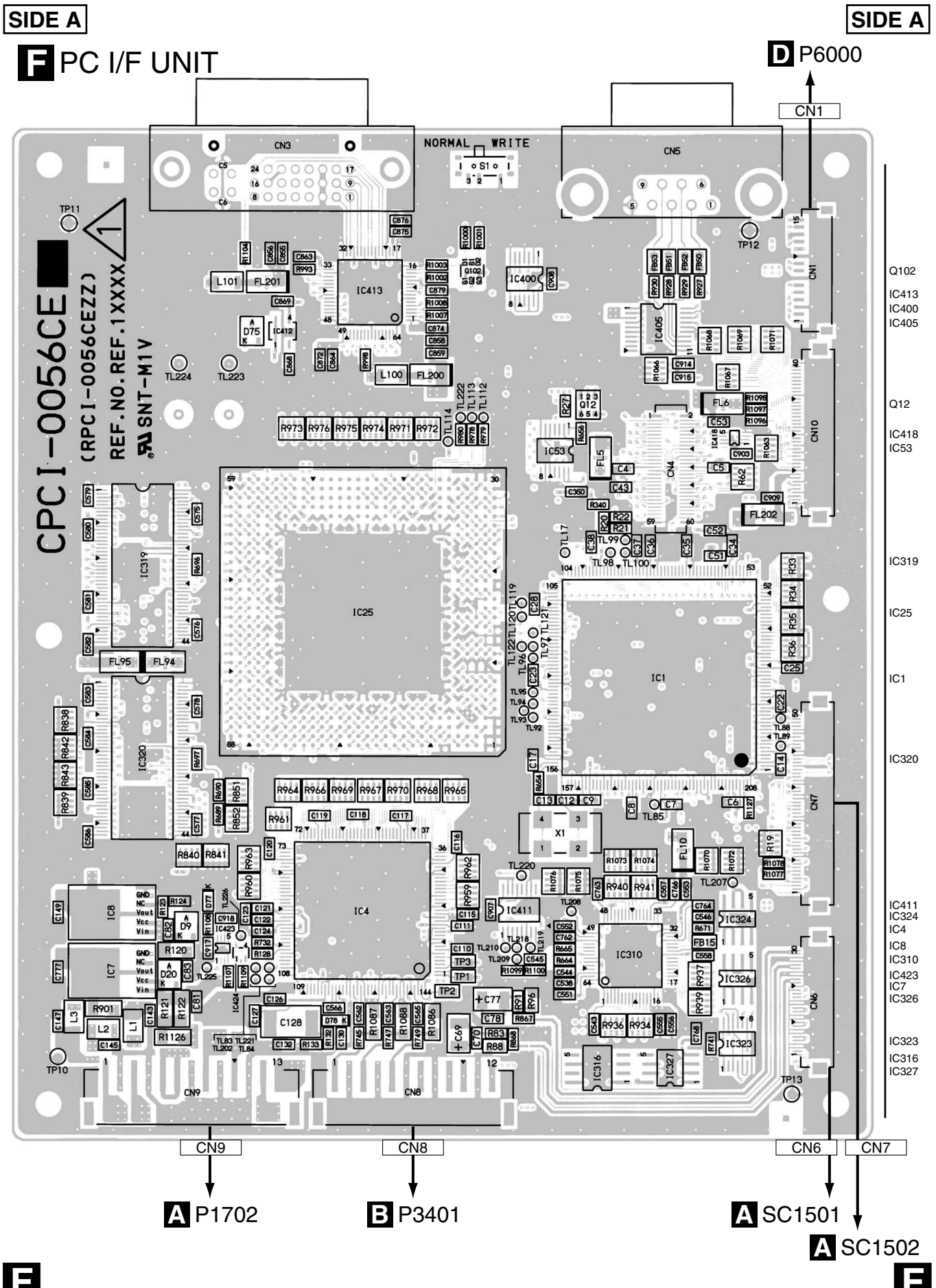
B D E

B D E

4.4 AV UNIT


SIDE A
SIDE A
C AV UNIT
Q1133
Q1124
Q1120
IC1103
IC1105
IC1104
Q1131
Q1135
IC2501
IC2504
IC1606
IC1604
IC1601
IC1603
IC1602
IC1611
IC1012
IC1605
IC1606
IC1615
IC1614
IC1609
IC1613
Q1113
Q1117
IC1102
Q1105
Q1106
Q1107
IC2503
Q1609
Q1610
Q1611
Q1109
Q1112
Q1104
Q1105
Q1106
Q1107
IC1301
Q1109
Q1112
Q1127
Q1130
Q1108
Q1103
Q1407
Q1405
Q1406
Q1101
Q1125
Q1102
IC1401
ICT CP
A B C D E F
P2502
P1402
P2503
A SC1504
E P3001
D P6001
P2501
A P1703
P1301
B P3402
SC1401
A SC1503
KA616DE
SAF16CP

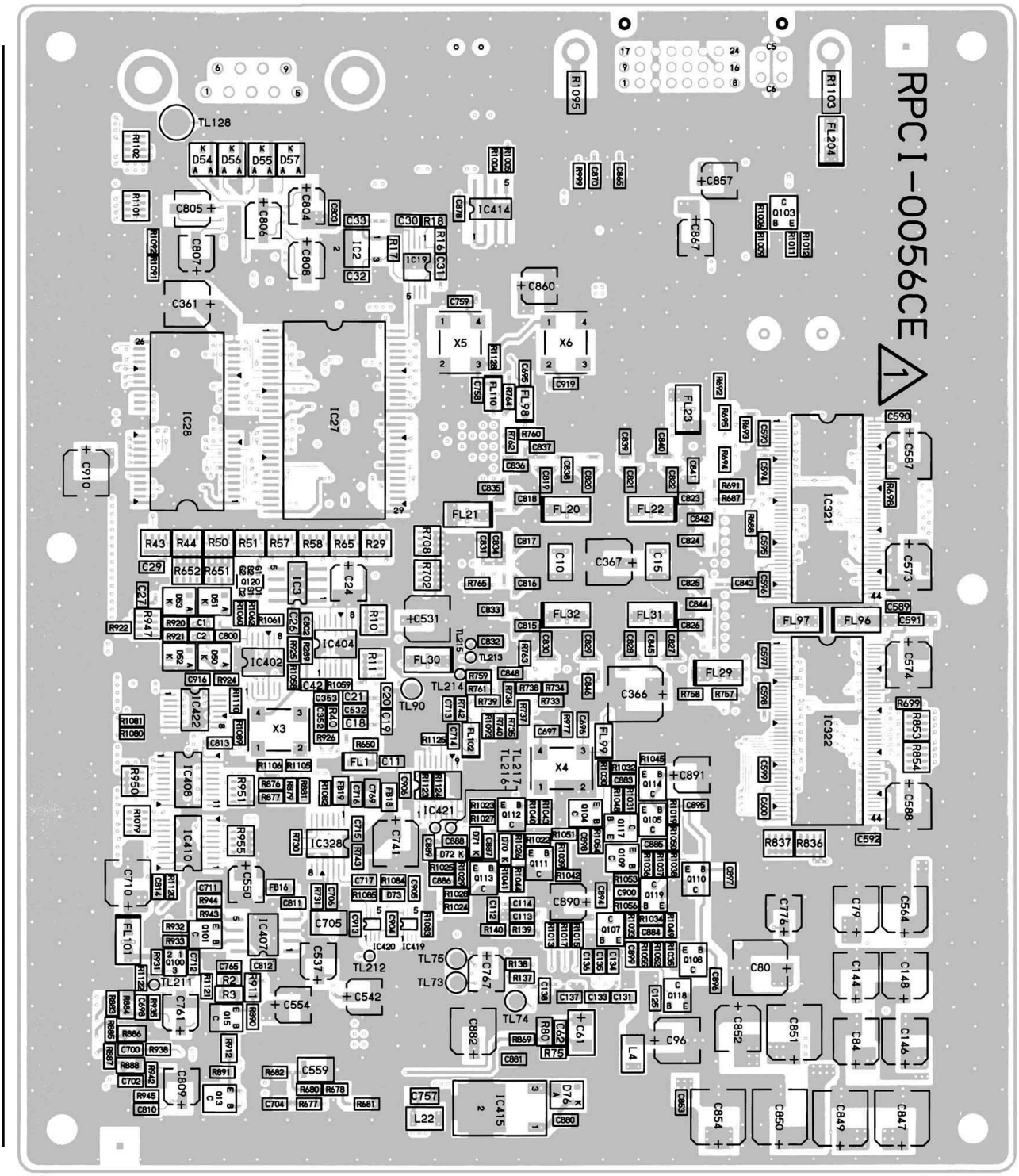
4.5 PC I/F UNIT


SIDE A
SIDE A
F PC I/F UNIT
D P6000
CN1
CPC1-0056CE
(RPC1-0056CEZZ)
REF.NO.REF.1XXXX
SNT-M1V
NORMAL WRITE
S1
CN3
CN5
TP11
TP12
TP10
TP13
TL224
TL223
L101
FL201
L100
FL200
IC413
IC400
IC405
IC53
IC25
IC1
IC319
IC320
IC4
IC8
IC7
IC411
IC324
IC326
IC323
IC316
IC327
IC310
X1
Q102
Q12
IC418
CN4
CN10
CN6
CN7
CN8
CN9
A P1702
B P3401
A SC1501
A SC1502
F
F

SIDE B

SIDE B

F PC I/F UNIT



F

F

5. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→ *56 x 10¹* →	*561*	····· *RD1/4PU 5 6 1 J*
47k Ω	→ *47 x 10³* →	*473*	····· *RD1/4PU 4 7 3 J*
0.5 Ω	→ *R50*		····· *RN2H R 5 0 K*
1 Ω	→ *1R0*		····· *RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	→ *562 x 10¹* →	*5621*	····· *RN1/4PC 5 6 2 1 F*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	MAIN UNIT	DUNTKA535DE04
	1	FRONT UNIT	DUNTKA617DE01
	1	AV UNIT	DUNTKA616DE01
	1	LED UNIT	DUNTKA619DE01
	1	SR UNIT	DUNTKA618DE01
	1	PC I/F UNIT	CPCI-0056CE15
	1	POWER UNIT	RDENC0331CEZZ
	1	EMC UNIT	RDENCA007WJZZ

A MAIN UNIT

IC

Mark	No.	Description	Part No.
	IC402	CXD2093Q	VHiCXD2093Q-1Q
	IC403	M62320FP	VHiM62320FP-1
	IC404	MI6428	VHiML6428C1-1Y
	IC604	TA1318AF	VHiTA1318AF-1Y
	IC801	TB1274AF	VHiTB1274AF-1Q
	IC802	TB1274AF	VHiTB1274AF-1Q
	IC803	CXA2101AQ-TI	VHiCXA2101Q-1
	IC804	MI6426CS-1	RH-iX3473CEZZ
	IC807	TC7W34FU	VHiTC7W34U/-1Y
	IC808	TC7W34FU	VHiTC7W34U/-1Y
	IC810	MI6426CS-1	RH-iX3473CEZZ
	IC811	MI6426CS-4	RH-iX3474CEZZ
	IC812	NJM353M	VHiNJM353M/-1
	IC814	BA7655AF	VHiBA7655AF-1
	IC1502	M62393FP	VHiM62393FP-1
	IC1503	M62320FP	VHiM62320FP-1
	IC1504	TC7W53FU	VHiTC7W53U/-1
	IC1701	FA3675F	VHiFA3675F/-1
	IC1704	BA09FP-E2	VHiBA09T/FP-1
	IC1706	BA08FP	VHiBA08FP++-1Y
	IC1708	BA05FP	VHiBA05FP++-1Y
	IC1709	BA05FP	VHiBA05FP++-1Y
	IC1710	BA05FP	VHiBA05FP++-1Y
	IC1711	BA05FP	VHiBA05FP++-1Y
	IC1712	BA05FP	VHiBA05FP++-1Y
	IC1713	BA12FP-E2	VHiBA12FP++-1Y
	IC1901	I.C.	RH-iXA194WJZZQ
	IC1902	M62320FP	VHiM62320FP-1
	IC1903	TC7W34FU	VHiTC7W34U/-1Y
	IC7001	UPD64082GF-3BA	VHiPD64082/-1S
	IC7002	MSM514265C50JS	RH-IX3152CEZZY
	IC7003	MI6428	VHiML6428C1-1Y
	IC7004	BA033FP-E2	VHiBA033FP/-1
	IC7005	PST600IMT	VHiPST600iM-1Y
	IC7200	IX3289CE	RH-iX3289CEZZ

TRANSISTOR

Mark	No.	Description	Part No.
	Q403	2SA1530AR	VS2SA1530AR-1
	Q405	2SA1530AR	VS2SA1530AR-1
	Q406	2SC3928AR	VS2SC3928AR-1
	Q407	2SC3928AR	VS2SC3928AR-1
	Q408	2SC3928AR	VS2SC3928AR-1
	Q424	2SA1530AR	VS2SA1530AR-1
	Q425	2SA1530AR	VS2SA1530AR-1
	Q601	2SC3928AR	VS2SC3928AR-1
	Q602	2SC3928AR	VS2SC3928AR-1
	Q603	2SC3928AR	VS2SC3928AR-1
	Q604	2SC3928AR	VS2SC3928AR-1
	Q605	2SC3928AR	VS2SC3928AR-1
	Q606	2SC3928AR	VS2SC3928AR-1
	Q607	2SC3928AR	VS2SC3928AR-1
	Q608	2SC3928AR	VS2SC3928AR-1
	Q609	2SC3928AR	VS2SC3928AR-1
	Q610	2SK1467	VS2SK1467//-1
	Q611	2SC3928AR	VS2SC3928AR-1
	Q612	2SC3928AR	VS2SC3928AR-1
	Q613	2SC3928AR	VS2SC3928AR-1
	Q614	2SC3928AR	VS2SC3928AR-1
	Q615	2SC3928AR	VS2SC3928AR-1
	Q616	2SC3928AR	VS2SC3928AR-1
	Q617	2SA1530AR	VS2SA1530AR-1
	Q801	2SA1530AR	VS2SA1530AR-1
	Q802	2SA1530AR	VS2SA1530AR-1
	Q803	2SA1530AR	VS2SA1530AR-1
	Q804	2SA1530AR	VS2SA1530AR-1
	Q805	DTC144EE	VSDTC144EE/-1
	Q807	2SC3928AR	VS2SC3928AR-1
	Q808	2SA1530AR	VS2SA1530AR-1
	Q809	2SC3928AR	VS2SC3928AR-1
	Q810	2SA1530AR	VS2SA1530AR-1
	Q811	2SA1530AR	VS2SA1530AR-1
	Q812	2SA1530AR	VS2SA1530AR-1
	Q813	DTC124EKA	VSDTC124EKA-1
	Q814	2SA1530AR	VS2SA1530AR-1
	Q815	2SA1530AR	VS2SA1530AR-1
	Q818	2SA1530AR	VS2SA1530AR-1
	Q819	2SA1530AR	VS2SA1530AR-1
	Q820	2SA1530AR	VS2SA1530AR-1
	Q821	2SC2735	VS2SC2735//1E
	Q822	2SC2735	VS2SC2735//1E

Mark No.	Description	Part No.
Q823	2SC2735	VS2SC2735//1E
Q824	2SA1530AR	VS2SA1530AR-1
Q825	2SA1530AR	VS2SA1530AR-1
Q826	2SA1530AR	VS2SA1530AR-1
Q827	2SA1530AR	VS2SA1530AR-1
Q828	2SA1530AR	VS2SA1530AR-1
Q830	2SC3928AR	VS2SC3928AR-1
Q837	2SC3928AR	VS2SC3928AR-1
Q838	2SA1530AR	VS2SA1530AR-1
Q839	2SC2735	VS2SC2735//1E
Q840	2SC2735	VS2SC2735//1E
Q841	2SC2735	VS2SC2735//1E
Q842	2SC3928AR	VS2SC3928AR-1
Q843	2SC3928AR	VS2SC3928AR-1
Q844	2SC3928AR	VS2SC3928AR-1
Q1502	DTC144EE	VSDTC144EE/-1
Q1503	2SB1132Q	VS2SB1132Q/-1
Q1504	2SC3928AR	VS2SC3928AR-1
Q1507	DTC144EE	VSDTC144EE/-1
Q1508	DTA124EKA	VSDTA124EKA-1
Q1509	DTC124EKA	VSDTC124EKA-1
Q1510	DTA124EKA	VSDTA124EKA-1
Q1511	DTC124EKA	VSDTC124EKA-1
Q1512	DTA124EKA	VSDTA124EKA-1
Q1513	DTC124EKA	VSDTC124EKA-1
Q1701	DTC114EE	VSDTC114EE/-1
Q1708	DTC114EE	VSDTC114EE/-1
Q1710	FMMT718	VSFMMT718//-1
Q1718	2SK2503	VS2SK2503//-1
Q1719	2SC3928AR	VS2SC3928AR-1
Q7001	2SA1530AR	VS2SA1530AR-1
Q7002	2SC3928AR	VS2SC3928AR-1
Q7003	2SA1530AR	VS2SA1530AR-1
Q7004	2SC3928AR	VS2SC3928AR-1
Q7005	2SA1530AR	VS2SA1530AR-1
Q7006	2SA1530AR	VS2SA1530AR-1
Q7007	2SA1530AR	VS2SA1530AR-1
Q7008	2SA1530AR	VS2SA1530AR-1
Q7009	2SA1530AR	VS2SA1530AR-1
Q7010	2SA1530AR	VS2SA1530AR-1
Q7201	2SC3928AR	VS2SC3928AR-1
Q7206	2SC3928AR	VS2SC3928AR-1

DIODE

D601	Diode	VHD1SS355//-1
D801	Diode	VHD1SS355//-1
D802	Diode	VHD1SS355//-1
D1502	Diode	VHDDAN222//-1
D1503	Diode	VHDDAN222//-1
D1504	Diode	VHDDAN222//-1
D1505	Diode	VHD1SS355//-1
D1506	Diode	VHD1SS355//-1
D1701	Diode	VHDHSU119//-1
D1702	Diode	VHDHSU119//-1
D1706	Diode	VHDSFPB74//2E
D1708	Zener Diode	RH-EX0501CEZZY
D1709	Zener Diode	RH-EX0501CEZZY
D1710	Zener Diode	RH-EX0523CEZZ
D1711	Diode	VHDSFPB74//2E
D1712	Diode	VHDHSU119//-1
D1713	Diode	VHDHSU119//-1
D1715	Diode	VHDSFPB56//2E
D1716	Diode	VHD1SS250//1E
D1717	Diode	VHDSFPB76//2E
D1719	Diode	VHDSFPB76//2E
D1720	Diode	VHDSFPB76//2E
D1723	Diode	VHDSFPB74//2E
D1724	Diode	VHDHSU119//-1
D1727	Diode	VHDHSU119//-1
D7201	Diode	VHDDAN222//-1
D7202	Diode	VHDDAN222//-1

PACKAGED CIRCUIT

X601	Filter	RFiLA0034CEZZ
X801	Crystal	RCRSB0244CEZZ
X802	Crystal	RCRSB0244CEZZ
X1901	Crystal	RCRSZ0093CEZZY
X7001	Crystal	RCRSC0026CEZZY

FILTER , COIL, TANSFORMER

CF7201	Filter	RFiLA0098CEZZ
FL7001	Filter	RFiLN0097GEZZY
FL7002	Filter	RFiLN0097GEZZY
FL7003	Filter	RFiLN0079GEZZY
FL7004	Filter	RFiLN0079GEZZY
L401	Peaking 4.7µH	VP-1M4R7J1R2N
L404	Peaking 27µH	VP-1M270J3R8N
L407	Peaking 22µH	VP-1M220J2R9N
L409	Peaking 4.7µH	VP-1M4R7J1R2N
L601	Peaking 12µH	VP-1M120J1R9N
L602	Peaking 6.8µH	VP-1M6R8J1R4N
L603	Peaking 47µH	VP-1M470J5R4N
L604	Peaking 6.8µH	VP-1M6R8J1R4N
L605	Peaking 5.6µH	VP-1M5R6J1R2NY
L606	Peaking 8.2µH	VP-1M8R2J1R5N
L801	Peaking 4.7µH	VP-1M4R7J1R2N
L802	Peaking 4.7µH	VP-1M4R7J1R2N
L803	Peaking 4.7µH	VP-1M4R7J1R2N
L804	Peaking 4.7µH	VP-1M4R7J1R2N
L805	Peaking 4.7µH	VP-1M4R7J1R2N
L806	Peaking 4.7µH	VP-1M4R7J1R2N
L807	Peaking 4.7µH	VP-1M4R7J1R2N
L1708	Coil	RCiLC0175CEZZY
L1710	Coil	RCiLC0175CEZZY
L1711	Coil	RCiLC0130CEZZ
L1712	Coil	RCiLP0159GEZZ
L1718	Coil	RCiLC0170CEZZY
L1719	Coil	RCiLP0159GEZZ
L1720	Coil	RCiLP0159GEZZ
L1721	Coil	RCiLP0160GEZZ
L1722	Coil	RCiLP0166GEZZY
L7001	Peaking 4.7µH	VP-1M4R7J1R2N
L7002	Peaking 22µH	VP-1M220J2R9N
L7003	Peaking 22µH	VP-1M220J2R9N
T1701	Transformer	RTRNZ0802CEZZY

CAPACITOR

C403	22 6.3V Electrolytic	VCEAPF0JW226M
C404	0.1 25V Ceramic	VCKYCY1EF104Z
C405	0.1 25V Ceramic	VCKYCY1EF104Z
C406	0.1 25V Ceramic	VCKYCY1EF104Z
C407	0.1 25V Ceramic	VCKYCY1EF104Z

Mark No.	Description	Part No.
C408	0.1 25V Ceramic	VCKYCY1EF104Z
C409	0.1 25V Ceramic	VCKYCY1EF104Z
C410	1.0 16V Ceramic	VCKYTV1CB105K
C411	0.1 25V Ceramic	VCKYTV1EB104K
C412	0.1 25V Ceramic	VCKYCY1EF104Z
C413	0.1 25V Ceramic	VCKYCY1EF104Z
C414	0.1 25V Ceramic	VCKYCY1EF104Z
C415	0.1 25V Ceramic	VCKYCY1EF104Z
C416	100 6.3V Electrolytic	VCEAPF0JN107M
C417	1000p 50V Ceramic	VCKYCY1HB102K
C418	0.022 50V Ceramic	VCKYCY1HF223Z
C419	0.1 25V Ceramic	VCKYCY1EF104Z
C420	0.1 25V Ceramic	VCKYCY1EF104Z
C421	0.1 25V Ceramic	VCKYCY1EF104Z
C422	100 16V Electrolytic	VCEAPW1CN107M
C423	0.1 25V Ceramic	VCKYCY1EF104Z
C427	27p 50V Ceramic	VCCCCY1HH270J
C428	56p 50V Ceramic	VCCCCY1HH560J
C429	0.1 25V Ceramic	VCKYCY1EF104Z
C452	100 6.3V Electrolytic	VCEAPF0JN107M
C460	27p 50V Ceramic	VCCCCY1HH270J
C461	10p 50V Ceramic	VCCCCY1HH100D
C462	10p 50V Ceramic	VCCCCY1HH100D
C466	100 16V Electrolytic	VCEAPW1CN107M
C467	0.1 25V Ceramic	VCKYCY1EF104Z
C468	0.1 25V Ceramic	VCKYCY1EF104Z
C614	1.0 50V Electrolytic	VCEAPF1HN105M
C615	0.01 50V Ceramic	VCKYCY1HB103K
C616	1.0 50V Electrolytic	VCEAPF1HW105M
C617	0.1 25V Ceramic	VCKYCY1EF104Z
C618	330 16V Electrolytic	RC-EZ0538CEZZ
C620	220 6.3V Electrolytic	VCEASH0JN227MY
C622	0.01 50V Ceramic	VCKYCY1HB103K
C623	0.1 25V Ceramic	VCKYCY1EF104Z
C624	47 16V Electrolytic	VCEAPF1CW476M
C625	0.1 25V Ceramic	VCKYCY1EF104Z
C626	47 16V Electrolytic	VCEAPF1CW476M
C627	0.1 25V Ceramic	VCKYCY1EF104Z
C628	220p 50V Ceramic	VCCCCY1HH221J
C629	820p 50V Ceramic	VCCCCY1HH821JY
C630	3900p 50V Ceramic	VCKYCY1HB392K
C631	1200p 50V Ceramic	VCKYCY1HB122K
C632	120p 50V Ceramic	VCCCCY1HH121J
C633	0.01 50V Ceramic	VCKYCY1HB103K
C634	22 16V Electrolytic	VCEAPF1CW226M
C635	10 16V Electrolytic	VCEAPF1CW106M
C636	0.1 25V Ceramic	VCKYCY1EF104Z
C638	0.1 25V Ceramic	VCKYCY1EF104Z
C639	10 16V Electrolytic	VCEAPF1CW106M
C640	10 16V Electrolytic	VCEAPF1CW106M
C641	22 16V Electrolytic	VCEAPF1CW226M
C642	0.1 25V Ceramic	VCKYCY1EF104Z
C643	0.1 25V Ceramic	VCKYCY1EF104Z
C644	47 16V Electrolytic	VCEAPF1CW476M
C645	0.1 25V Ceramic	VCKYCY1EF104Z
C646	4.7 50V Electrolytic	VCEAPF1HW475M
C647	33 10V Electrolytic	VCEAPF1AW336M
C648	100 16V Electrolytic	VCEAPF1CW107M
C649	0.1 25V Ceramic	VCKYCY1EF104Z
C650	150p 50V Ceramic	VCCCCY1HH151J

Mark No.	Description	Part No.
C651	120p 50V Ceramic	VCCCCY1HH121J
C652	270p 50V Ceramic	VCCCCY1HH271J
C653	0.01 50V Ceramic	VCKYCY1HB103K
C654	0.1 25V Ceramic	VCKYCY1EF104Z
C801	0.1 25V Ceramic	VCKYTV1EB104K
C802	0.1 25V Ceramic	VCKYCY1EF104Z
C803	0.01 50V Ceramic	VCKYCY1HB103K
C804	100 6.3V Electrolytic	VCEAPF0JN107M
C805	0.01 50V Ceramic	VCKYCY1HB103K
C807	0.1 25V Ceramic	VCKYTV1EB104K
C808	0.1 25V Ceramic	VCKYTV1EB104K
C809	0.1 25V Ceramic	VCKYTV1EB104K
C810	4.7 25V Electrolytic	VCEAPF1EN475MY
C811	0.1 25V Ceramic	VCKYTV1EB104K
C812	0.1 25V Ceramic	VCKYTV1EB104K
C813	0.1 25V Ceramic	VCKYTV1EB104K
C814	0.01 50V Ceramic	VCKYCY1HB103K
C815	100 6.3V Electrolytic	VCAAPF0JJ107MY
C816	9.0p 50V Ceramic	VCCCCY1HH9R0DY
C817	0.01 50V Ceramic	VCKYCY1HB103K
C818	0.47 50V Electrolytic	VCEAPF1HN474M
C819	2.2 50V Electrolytic	VCEAPF1HN225MY
C820	0.022 25V Ceramic	VCKYCY1EB223KY
C821	0.01 50V Ceramic	VCKYCY1HB103K
C822	0.1 25V Ceramic	VCKYTV1EB104K
C823	0.1 25V Ceramic	VCKYCY1EF104Z
C824	0.1 25V Ceramic	VCKYTV1EB104K
C825	0.01 50V Ceramic	VCKYCY1HB103K
C826	100 6.3V Electrolytic	VCEAPF0JN107M
C827	0.01 50V Ceramic	VCKYCY1HB103K
C828	0.01 50V Ceramic	VCKYCY1HB103K
C829	10 16V Electrolytic	VCEAPF1CN106M
C830	0.1 25V Ceramic	VCKYTV1EB104K
C831	0.1 25V Ceramic	VCKYTV1EB104K
C832	0.1 25V Ceramic	VCKYTV1EB104K
C833	4.7 25V Electrolytic	VCEAPF1EN475MY
C834	0.1 25V Ceramic	VCKYTV1EB104K
C835	0.1 25V Ceramic	VCKYTV1EB104K
C836	0.1 25V Ceramic	VCKYTV1EB104K
C837	100 6.3V Electrolytic	VCAAPF0JJ107MY
C838	0.01 50V Ceramic	VCKYCY1HB103K
C839	9.0p 50V Ceramic	VCCCCY1HH9R0DY
C840	0.01 50V Ceramic	VCKYCY1HB103K
C841	0.47 50V Electrolytic	VCEAPF1HN474M
C842	0.1 25V Ceramic	VCKYCY1EF104Z
C845	2.2 50V Electrolytic	VCEAPF1HN225MY
C846	0.022 25V Ceramic	VCKYCY1EB223KY
C847	0.01 50V Ceramic	VCKYCY1HB103K
C848	1.0 50V Electrolytic	VCEAPF1HN105M
C849	1.0 50V Electrolytic	VCEAPF1HN105M
C850	1.0 50V Electrolytic	VCEAPF1HN105M
C851	0.1 25V Ceramic	VCKYCY1EF104Z
C852	470 16V Electrolytic	VCEASK1CN477MY
C854	220 6.3V Electrolytic	VCEAPF0JW227MY
C855	220 6.3V Electrolytic	VCEAPF0JW227MY
C856	220 6.3V Electrolytic	VCEAPF0JW227MY
C861	0.1 25V Ceramic	VCKYCY1EF104Z
C866	0.1 25V Ceramic	VCKYCY1EF104Z
C868	0.01 50V Ceramic	VCKYCY1HB103K
C869	0.1 25V Ceramic	VCKYCY1EF104Z

Mark No.	Description	Part No.
C870	0.1 25V Ceramic	VCKYCY1EF104Z
C871	0.1 25V Ceramic	VCKYCY1EF104Z
C872	0.1 25V Ceramic	VCKYCY1EF104Z
C873	1.0 16V Ceramic	VCKYTV1CB105K
C874	1.0 16V Ceramic	VCKYTV1CB105K
C875	1.0 16V Ceramic	VCKYTV1CB105K
C876	2200p 50V Ceramic	VCKYCY1HB222K
C877	0.47 16V Ceramic	VCKYTV1CB474K
C878	0.47 16V Ceramic	VCKYTV1CB474K
C879	22 16V Electrolytic	VCEAPF1CN226MY
C880	0.1 25V Ceramic	VCKYTV1EB104K
C881	0.1 25V Ceramic	VCKYTV1EB104K
C882	0.1 25V Ceramic	VCKYTV1EB104K
C883	22 16V Electrolytic	VCEAPF1CW226M
C884	22 16V Electrolytic	VCEAPF1CW226M
C885	22 16V Electrolytic	VCEAPF1CW226M
C886	39p 50V Ceramic	VCCCCY1HH390J
C887	10 16V Electrolytic	VCEAPF1CN106M
C888	0.47 16V Ceramic	VCKYTV1CB474K
C890	Ceramic	RC-KZ1025CEZZ
C891	47 6.3V Electrolytic	VCEAPF0JN476MY
C892	0.1 25V Ceramic	VCKYTV1EB104K
C893	0.1 25V Ceramic	VCKYTV1EB104K
C894	0.1 25V Ceramic	VCKYTV1EB104K
C895	0.1 25V Ceramic	VCKYTV1EB104K
C896	0.1 25V Ceramic	VCKYTV1EB104K
C897	0.1 25V Ceramic	VCKYTV1EB104K
C898	0.1 25V Ceramic	VCKYCY1EF104Z
C899	47 6.3V Electrolytic	VCEAPF0JN476MY
C900	100 6.3V Electrolytic	VCEAPF0JN107M
C901	0.1 25V Ceramic	VCKYCY1EF104Z
C902	1.0 50V Electrolytic	VCEAPF1HN105M
C903	0.1 25V Ceramic	VCKYCY1EF104Z
C912	0.47 50V Electrolytic	VCEAPF1HN474M
C913	0.47 50V Electrolytic	VCEAPF1HN474M
C914	39 16V Electrolytic	VCAAPF1CJ396MY
C915	0.1 25V Ceramic	VCKYCY1EF104Z
C916	0.1 25V Ceramic	VCKYCY1EF104Z
C917	0.1 25V Ceramic	VCKYTV1EB104K
C918	0.1 25V Ceramic	VCKYTV1EB104K
C919	0.1 25V Ceramic	VCKYTV1EB104K
C920	1.0 16V Ceramic	VCKYTV1CB105K
C921	1.0 16V Ceramic	VCKYTV1CB105K
C922	1.0 16V Ceramic	VCKYTV1CB105K
C923	0.1 25V Ceramic	VCKYCY1EF104Z
C924	0.1 25V Ceramic	VCKYCY1EF104Z
C925	0.1 25V Ceramic	VCKYCY1EF104Z
C926	0.1 25V Ceramic	VCKYCY1EF104Z
C927	0.1 25V Ceramic	VCKYCY1EF104Z
C928	47 16V Electrolytic	VCEAPF1CN476MY
C929	47 16V Electrolytic	VCEAPF1CN476MY
C930	0.1 25V Ceramic	VCKYCY1EF104Z
C931	10 16V Electrolytic	VCEAPF1CN106M
C932	10 16V Electrolytic	VCEAPF1CN106M
C933	0.1 25V Ceramic	VCKYCY1EF104Z
C934	22 16V Electrolytic	VCEAPF1CN226MY
C935	220 6.3V Electrolytic	VCEASH0JN227MY
C936	10 16V Electrolytic	VCEAPF1CN106M
C937	10 16V Electrolytic	VCEAPF1CN106M
C938	0.1 25V Ceramic	VCKYCY1EF104Z

Mark No.	Description	Part No.
C944	Capacitor	RC-KZ1025CEZZ
C950	0.1 25V Ceramic	VCKYCY1EF104Z
C951	0.1 25V Ceramic	VCKYCY1EF104Z
C952	0.1 25V Ceramic	VCKYCY1EF104Z
C953	0.1 25V Ceramic	VCKYCY1EF104Z
C954	0.1 25V Ceramic	VCKYCY1EF104Z
C1502	0.1 25V Ceramic	VCKYCY1EF104Z
C1503	0.1 25V Ceramic	VCKYCY1EF104Z
C1504	100 6.3V Electrolytic	VCEAPF0JN107M
C1505	47 16V Electrolytic	VCEAPF1CW476M
C1506	47 16V Electrolytic	VCEAPF1CW476M
C1511	0.1 25V Ceramic	VCKYCY1EF104Z
C1512	1.0 16V Ceramic	VCKYTV1CF105Z
C1701	330 16V Electrolytic	VCEASH1CN337MY
C1702	22 16V Electrolytic	VCEAPF1CW226M
C1703	0.1 25V Ceramic	VCKYCY1EF104Z
C1704	100p 50V Ceramic	VCCCCY1HH101J
C1705	0.47 16V Ceramic	VCKYCY1CF474Z
C1706	1.0 16V Ceramic	VCKYTV1CF105Z
C1707	0.22 16V Ceramic	VCKYTV1CF224Z
C1709	0.1 25V Ceramic	VCKYCY1EF104Z
C1711	0.1 16V Ceramic	VCKYTV1CF104Z
C1712	0.01 50V Ceramic	VCKYCY1HB103K
C1713	1.0 16V Ceramic	VCKYTV1CB105K
C1714	2200p 50V Ceramic	VCKYCY1HB222K
C1715	2200p 50V Ceramic	VCKYCY1HB222K
C1717	0.33 16V Ceramic	VCKYCY1CF334Z
C1718	100 16V Electrolytic	VCEAPF1CN107M
C1719	2200p 50V Ceramic	VCKYCY1HB222K
C1720	2200p 50V Ceramic	VCKYCY1HB222K
C1721	0.33 16V Ceramic	VCKYCY1CF334Z
C1722	100 16V Electrolytic	VCEAPF1CN107M
C1724	0.1 25V Ceramic	VCKYCY1EF104Z
C1725	1.0 16V Ceramic	VCKYTV1CF105Z
C1727	39 16V Electrolytic	VCAAPF1CJ396MY
C1728	82 16V Electrolytic	VCAAPF1CJ826MY
C1729	220 6.3V Electrolytic	VCAAPF0JJ227MY
C1731	0.1 25V Ceramic	VCKYCY1EF104Z
C1732	470 16V Electrolytic	VCEASK1CN477MY
C1733	0.33 16V Ceramic	VCKYCY1CF334Z
C1734	100 16V Electrolytic	VCEAPF1CN107M
C1735	470 16V Electrolytic	VCEASK1CN477MY
C1736	39 16V Electrolytic	VCAAPF1CJ396MY
C1737	82 16V Electrolytic	VCAAPF1CJ826MY
C1738	330 4.0V Electrolytic	VCAAPF0GJ337MY
C1740	1000p 50V Ceramic	VCKYCY1HB102K
C1741	0.33 16V Ceramic	VCKYCY1CF334Z
C1742	100 16V Electrolytic	VCEAPF1CN107M
C1743	1000p 50V Ceramic	VCKYCY1HB102K
C1744	1000p 50V Ceramic	VCKYCY1HB102K
C1745	1.0 16V Ceramic	VCKYTV1CF105Z
C1746	1000p 50V Ceramic	VCKYCY1HB102K
C1748	0.33 16V Ceramic	VCKYCY1CF334Z
C1749	100 16V Electrolytic	VCEAPF1CN107M
C1750	330 16V Electrolytic	VCEASH1CN337MY
C1751	5600p 50V Ceramic	VCKYCY1HB562K
C1752	82 16V Electrolytic	VCAAPF1CJ826MY
C1753	5600p 50V Ceramic	VCKYCY1HB562K
C1754	100 50V Electrolytic	VCEASH1HN107MY
C1755	0.1 50V Ceramic	VCKYTV1HF104Z

Mark No.	Description	Part No.
C1756	1.0 16V Ceramic	VCKYTV1CF105Z
C1757	330 16V Electrolytic	VCEASH1CN337MY
C1758	1.0 16V Ceramic	VCKYTV1CF105Z
C1759	Capacitor	RC-EZ1339CEZZ
C1764	330 16V Electrolytic	VCEASH1CN337MY
C1765	1.0 16V Ceramic	VCKYTV1CF105Z
C1766	Capacitor	RC-EZ1339CEZZ
C1767	1.0 16V Ceramic	VCKYTV1CF105Z
C1768	330 16V Electrolytic	VCEASH1CN337MY
C1769	Capacitor	RC-EZ1339CEZZ
C1770	1000p 50V Ceramic	VCKYCY1HB102K
C1771	1000p 50V Ceramic	VCKYCY1HB102K
C1772	1000p 50V Ceramic	VCKYCY1HB102K
C1773	1000p 50V Ceramic	VCKYCY1HB102K
C1774	470 16V Electrolytic	VCEASK1CN477MY
C1775	330 16V Electrolytic	VCEASK1CN337MY
C1776	1000p 50V Ceramic	VCKYCY1HB102K
C1777	1000p 50V Ceramic	VCKYCY1HB102K
C1778	100 6.3V Electrolytic	VCEAPF0JW107M
C1779	0.1 25V Ceramic	VCKYCY1EF104Z
C1780	1000p 50V Ceramic	VCKYCY1HB102K
C1781	1000p 50V Ceramic	VCKYCY1HB102K
C1782	1000p 50V Ceramic	VCKYCY1HB102K
C1783	39 16V Electrolytic	VCAAPF1CJ396MY
C1784	82 16V Electrolytic	VCAAPF1CJ826MY
C1785	150 10V Electrolytic	VCAAPF1AJ157MY
C1787	1000p 50V Ceramic	VCKYCY1HB102K
C1788	1000p 50V Ceramic	VCKYCY1HB102K
C1789	1000p 50V Ceramic	VCKYCY1HB102K
C1790	1000p 50V Ceramic	VCKYCY1HB102K
C1791	1000p 50V Ceramic	VCKYCY1HB102K
C1792	0.33 16V Ceramic	VCKYCY1CF334Z
C1793	100 16V Electrolytic	VCEAPF1CN107M
C1794	0.33 16V Ceramic	VCKYCY1CF334Z
C1795	100 16V Electrolytic	VCEAPF1CN107M
C1796	0.33 16V Ceramic	VCKYCY1CF334Z
C1797	100 16V Electrolytic	VCEAPF1CN107M
C1798	1000p 50V Ceramic	VCKYCY1HB102K
C1901	100 6.3V Electrolytic	VCEAPF0JW107M
C1902	0.1 25V Ceramic	VCKYCY1EF104Z
C1903	0.1 25V Ceramic	VCKYCY1EF104Z
C1904	0.1 25V Ceramic	VCKYCY1EF104Z
C1905	0.1 25V Ceramic	VCKYCY1EF104Z
C1906	0.1 25V Ceramic	VCKYCY1EF104Z
C1907	0.1 25V Ceramic	VCKYCY1EF104Z
C1908	100 6.3V Electrolytic	VCEAPF0JW107M
C1909	0.1 25V Ceramic	VCKYCY1EF104Z
C1910	0.1 25V Ceramic	VCKYCY1EF104Z
C1911	0.1 25V Ceramic	VCKYCY1EF104Z
C7001	22p 50V Ceramic	VCCCCY1HH220JY
C7002	22p 50V Ceramic	VCCCCY1HH220JY
C7003	0.1 25V Ceramic	VCKYCY1EF104Z
C7004	0.1 25V Ceramic	VCKYCY1EF104Z
C7005	0.1 25V Ceramic	VCKYCY1EF104Z
C7006	0.1 25V Ceramic	VCKYCY1EF104Z
C7007	390p 50V Ceramic	VCCCCY1HH391JY
C7008	0.1 25V Ceramic	VCKYCY1EF104Z
C7009	10 16V Electrolytic	VCEAPF1CN106M
C7010	0.1 25V Ceramic	VCKYCY1EF104Z
C7011	0.1 25V Ceramic	VCKYCY1EF104Z

Mark No.	Description	Part No.
C7012	0.47 50V Electrolytic	VCEAPF1HN474M
C7013	0.01 50V Ceramic	VCKYCY1HB103K
C7014	0.1 25V Ceramic	VCKYCY1EF104Z
C7015	470p 50V Ceramic	VCCCCY1HH471JY
C7016	0.33 50V Electrolytic	VCEAPF1HN334MY
C7017	0.1 25V Ceramic	VCKYCY1EF104Z
C7018	0.1 25V Ceramic	VCKYCY1EF104Z
C7019	0.1 25V Ceramic	VCKYCY1EF104Z
C7020	0.1 25V Ceramic	VCKYCY1EF104Z
C7021	10 16V Electrolytic	VCEAPF1CN106M
C7022	0.1 25V Ceramic	VCKYCY1EF104Z
C7023	100p 50V Ceramic	VCCCCY1HH101J
C7024	1.0 50V Elect.(N.P)	VCE9PF1HW105MY
C7025	0.1 25V Ceramic	VCKYCY1EF104Z
C7026	0.1 25V Ceramic	VCKYCY1EF104Z
C7027	0.1 25V Ceramic	VCKYCY1EF104Z
C7028	0.1 25V Ceramic	VCKYCY1EF104Z
C7029	0.1 25V Ceramic	VCKYCY1EF104Z
C7030	0.1 25V Ceramic	VCKYCY1EF104Z
C7031	0.1 25V Ceramic	VCKYCY1EF104Z
C7032	0.1 25V Ceramic	VCKYCY1EF104Z
C7033	0.1 25V Ceramic	VCKYCY1EF104Z
C7034	1.0p 50V Ceramic	VCCCCY1HH1R0CY
C7035	1.0 16V Ceramic	VCKYTV1CB105K
C7036	1.0 16V Ceramic	VCKYTV1CB105K
C7037	0.1 25V Ceramic	VCKYCY1EF104Z
C7038	100 6.3V Electrolytic	VCAAPF0JJ107MY
C7041	0.1 25V Ceramic	VCKYCY1EF104Z
C7042	47 16V Electrolytic	VCEAPF1CN476MY
C7043	10p 50V Ceramic	VCCCCY1HH100D
C7044	27p 50V Ceramic	VCCCCY1HH270J
C7045	10p 50V Ceramic	VCCCCY1HH100D
C7046	10p 50V Ceramic	VCCCCY1HH100D
C7047	27p 50V Ceramic	VCCCCY1HH270J
C7048	10p 50V Ceramic	VCCCCY1HH100D
C7049	0.01 50V Ceramic	VCKYCY1HB103K
C7050	0.01 50V Ceramic	VCKYCY1HB103K
C7051	100 6.3V Electrolytic	VCEAPF0JN107M
C7052	Capacitor	RC-EZ0416CEZZY
C7053	100 6.3V Electrolytic	VCEAPF0JN107M
C7054	100 6.3V Electrolytic	VCEAPF0JN107M
C7055	0.1 25V Ceramic	VCKYCY1EF104Z
C7057	100 6.3V Electrolytic	VCEAPF0JN107M
C7058	0.1 25V Ceramic	VCKYCY1EF104Z
C7201	0.1 25V Ceramic	VCKYCY1EF104Z
C7203	33p 50V Ceramic	VCCCCY1HH330J
C7204	33p 50V Ceramic	VCCCCY1HH330J
C7205	33p 50V Ceramic	VCCCCY1HH330J
C7206	33p 50V Ceramic	VCCCCY1HH330J
C7207	0.1 25V Ceramic	VCKYCY1EF104Z
C7208	0.1 25V Ceramic	VCKYCY1EF104Z
C7209	0.1 25V Ceramic	VCKYCY1EF104Z
C7210	0.1 25V Ceramic	VCKYCY1EF104Z
C7221	100 6.3V Electrolytic	VCEAPF0JW107M

RESISTOR

R403	470 1/16W Metal Oxide	VRS-CY1JF471F
R405	220 1/16W Metal Oxide	VRS-CY1JF221F
R406	390 1/16W Metal Oxide	VRS-CY1JF391F
R409	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
R410	2.7k 1/16W Metal Oxide	VRS-CY1JF272F

Mark No.	Description	Part No.
R411	3.3k 1/16W Metal Oxide	VRS-CY1JF332F
R412	560 1/16W Metal Oxide	VRS-CY1JF561J
R413	56k 1/16W Metal Oxide	VRS-CY1JF563J
R414	390 1/16W Metal Oxide	VRS-CY1JF391J
R415	390 1/16W Metal Oxide	VRS-CY1JF391J
R416	390 1/16W Metal Oxide	VRS-CY1JF391J
R420	390 1/16W Metal Oxide	VRS-CY1JF391J
R421	390 1/16W Metal Oxide	VRS-CY1JF391J
R422	100 1/16W Metal Oxide	VRS-CY1JF101J
R423	100 1/16W Metal Oxide	VRS-CY1JF101J
R424	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R425	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R435	100 1/16W Metal Oxide	VRS-CY1JF101J
R436	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R437	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R439	27k 1/16W Metal Oxide	VRS-CY1JF273J
R440	27k 1/16W Metal Oxide	VRS-CY1JF273J
R441	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R444	100 1/16W Metal Oxide	VRS-CY1JF101J
R445	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R446	330 1/16W Metal Oxide	VRS-CY1JF331J
R447	360 1/16W Metal Oxide	VRS-CY1JF361J
R448	100 1/16W Metal Oxide	VRS-CY1JF101J
R449	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R450	330 1/16W Metal Oxide	VRS-CY1JF331J
R451	330 1/16W Metal Oxide	VRS-CY1JF331J
R452	100 1/16W Metal Oxide	VRS-CY1JF101J
R453	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R454	330 1/16W Metal Oxide	VRS-CY1JF331J
R455	390 1/16W Metal Oxide	VRS-CY1JF391J
R459	560 1/16W Metal Oxide	VRS-CY1JF561J
R481	390 1/16W Metal Oxide	VRS-CY1JF391J
R528	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R529	910 1/16W Metal Oxide	VRS-CY1JF911J
R530	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R531	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R536	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R607	12k 1/16W Metal Oxide	VRS-CY1JF123J
R608	12k 1/16W Metal Oxide	VRS-CY1JF123J
R609	100 1/16W Metal Oxide	VRS-CY1JF101J
R610	100 1/16W Metal Oxide	VRS-CY1JF101J
R611	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R612	390 1/16W Metal Oxide	VRS-CY1JF391J
R613	100 1/16W Metal Oxide	VRS-CY1JF101J
R614	100 1/16W Metal Oxide	VRS-CY1JF101J
R615	100 1/16W Metal Oxide	VRS-CY1JF101J
R620	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R621	47 1/16W Metal Oxide	VRS-CY1JF470J
R622	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R623	330 1/16W Metal Oxide	VRS-CY1JF331J
R624	470 1/16W Metal Oxide	VRS-CY1JF471F
R625	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R626	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R627	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R628	47 1/16W Metal Oxide	VRS-CY1JF470J
R629	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R630	470 1/16W Metal Oxide	VRS-CY1JF471J
R631	100 1/16W Metal Oxide	VRS-CY1JF101J
R632	330 1/16W Metal Oxide	VRS-CY1JF331J
R633	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R634	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
R635	100 1/16W Metal Oxide	VRS-CY1JF101J
R636	820 1/16W Metal Oxide	VRS-CY1JF821J
R637	15k 1/16W Metal Oxide	VRS-CY1JF153J
R638	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R639	820 1/16W Metal Oxide	VRS-CY1JF821J
R640	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
R641	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R642	47 1/16W Metal Oxide	VRS-CY1JF470J
R643	680 1/16W Metal Oxide	VRS-CY1JF681J
R644	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R646	47 1/16W Metal Oxide	VRS-CY1JF470J
R647	330 1/16W Metal Oxide	VRS-CY1JF331J
R648	100 1/16W Metal Oxide	VRS-CY1JF101J
R649	18k 1/16W Metal Oxide	VRS-CY1JF183J
R650	47 1/16W Metal Oxide	VRS-CY1JF470J
R651	5.1k 1/16W Metal Oxide	VRS-CY1JF512J
R652	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R653	470 1/16W Metal Oxide	VRS-CY1JF471J
R654	220 1/16W Metal Oxide	VRS-CY1JF221J
R655	15k 1/16W Metal Oxide	VRS-CY1JF153J
R656	5.1k 1/16W Metal Oxide	VRS-CY1JF512J
R658	47 1/16W Metal Oxide	VRS-CY1JF470J
R659	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R661	680 1/16W Metal Oxide	VRS-CY1JF681J
R664	300 1/16W Metal Oxide	VRS-CY1JF301F
R665	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R666	820 1/16W Metal Oxide	VRS-CY1JF821J
R667	47 1/16W Metal Oxide	VRS-CY1JF470J
R668	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R669	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R670	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R671	0 1/16W Metal Oxide	VRS-CY1JF000J
R672	0 1/16W Metal Oxide	VRS-CY1JF000J
R675	33k 1/16W Metal Oxide	VRS-CY1JF333J
R676	22k 1/16W Metal Oxide	VRS-CY1JF223J
R677	47 1/16W Metal Oxide	VRS-CY1JF470J
R678	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R679	470 1/16W Metal Oxide	VRS-CY1JF471J
R680	10k 1/16W Metal Oxide	VRS-CY1JF103J
R681	330 1/16W Metal Oxide	VRS-CY1JF331J
R682	47k 1/16W Metal Oxide	VRS-CY1JF473J
R683	18k 1/16W Metal Oxide	VRS-CY1JF183J
R684	47 1/16W Metal Oxide	VRS-CY1JF470J
R685	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R699	0 1/16W Metal Oxide	VRS-CY1JF000J
R800	0 1/16W Metal Oxide	VRS-CY1JF000J
R801	560 1/16W Metal Oxide	VRS-CY1JF561J
R802	100 1/16W Metal Oxide	VRS-CY1JF101J
R803	100 1/16W Metal Oxide	VRS-CY1JF101J
R805	27k 1/16W Metal Oxide	VRS-CY1JF273J
R807	3.9k 1/16W Metal Oxide	VRS-CY1JF392J
R808	100 1/16W Metal Oxide	VRS-CY1JF101J
R809	100 1/16W Metal Oxide	VRS-CY1JF101J
R811	27k 1/16W Metal Oxide	VRS-CY1JF273J
R812	100 1/16W Metal Oxide	VRS-CY1JF101J
R813	3.9k 1/16W Metal Oxide	VRS-CY1JF392J
R816	10k 1/16W Metal Oxide	VRS-CY1JF103J
R817	10k 1/16W Metal Oxide	VRS-CY1JF103J
R818	10k 1/16W Metal Oxide	VRS-CY1JF103J

Mark No.	Description	Part No.	Mark No.	Description	Part No.
R819	10k 1/16W Metal Oxide	VRS-CY1JF103J	R924	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R820	75 1/8W Metal Oxide	VRS-TQ2BD750J	R925	10k 1/16W Metal Oxide	VRS-CY1JF103J
R821	75 1/8W Metal Oxide	VRS-TQ2BD750J	R926	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R822	75 1/8W Metal Oxide	VRS-TQ2BD750J	R927	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R830	680 1/16W Metal Oxide	VRS-CY1JF681J	R928	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R831	470 1/16W Metal Oxide	VRS-CY1JF471J	R929	56 1/16W Metal Oxide	VRS-CY1JF560J
R832	47k 1/16W Metal Oxide	VRS-CY1JF473F	R930	56 1/16W Metal Oxide	VRS-CY1JF560J
R833	100 1/16W Metal Oxide	VRS-CY1JF101J	R931	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R834	100 1/16W Metal Oxide	VRS-CY1JF101J	R932	100 1/16W Metal Oxide	VRS-CY1JF101J
R835	47 1/16W Metal Oxide	VRS-CY1JF470J	R933	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R836	47 1/16W Metal Oxide	VRS-CY1JF470J	R934	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R837	1.0k 1/16W Metal Oxide	VRS-CY1JF102J	R935	820 1/16W Metal Oxide	VRS-CY1JF821J
R841	47 1/16W Metal Oxide	VRS-CY1JF470J	R936	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R842	5.6k 1/16W Metal Oxide	VRS-CY1JF562J	R937	100 1/16W Metal Oxide	VRS-CY1JF101J
R844	6.8k 1/16W Metal Oxide	VRS-CY1JF682J	R938	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R846	47 1/16W Metal Oxide	VRS-CY1JF470J	R939	820 1/16W Metal Oxide	VRS-CY1JF821J
R847	1.0k 1/16W Metal Oxide	VRS-CY1JF102J	R940	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R850	47 1/16W Metal Oxide	VRS-CY1JF470J	R941	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R851	1.0k 1/16W Metal Oxide	VRS-CY1JF102J	R942	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R854	4.7k 1/16W Metal Oxide	VRS-CY1JF472J	R943	820 1/16W Metal Oxide	VRS-CY1JF821J
R855	3.3M 1/16W Metal Oxide	VRS-CY1JF335J	R944	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R856	1.0k 1/16W Metal Oxide	VRS-CY1JF102J	R945	820 1/16W Metal Oxide	VRS-CY1JF821J
R857	10k 1/16W Metal Oxide	VRS-CY1JF103J	R946	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R858	10k 1/16W Metal Oxide	VRS-CY1JF103J	R947	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R859	0 1/16W Metal Oxide	VRS-CY1JF000J	R948	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R864	100 1/16W Metal Oxide	VRS-CY1JF101J	R949	820 1/16W Metal Oxide	VRS-CY1JF821J
R865	100 1/16W Metal Oxide	VRS-CY1JF101J	R950	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R866	4.7k 1/16W Metal Oxide	VRS-CY1JF472J	R951	820 1/16W Metal Oxide	VRS-CY1JF821J
R867	4.7k 1/16W Metal Oxide	VRS-CY1JF472J	R952	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R868	4.7k 1/16W Metal Oxide	VRS-CY1JF472J	R953	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R869	10k 1/16W Metal Oxide	VRS-CY1JF103J	R954	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R873	22k 1/16W Metal Oxide	VRS-CY1JF223F	R955	820 1/16W Metal Oxide	VRS-CY1JF821J
R874	10k 1/16W Metal Oxide	VRS-CY1JF103J	R956	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R875	10k 1/16W Metal Oxide	VRS-CY1JF103J	R957	820 1/16W Metal Oxide	VRS-CY1JF821J
R876	10k 1/16W Metal Oxide	VRS-CY1JF103J	R958	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R877	10k 1/16W Metal Oxide	VRS-CY1JF103J	R959	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R886	2.2k 1/16W Metal Oxide	VRS-CY1JF222J	R960	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R891	100 1/16W Metal Oxide	VRS-CY1JF101J	R961	820 1/16W Metal Oxide	VRS-CY1JF821J
R892	100 1/16W Metal Oxide	VRS-CY1JF101J	R962	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R894	100 1/16W Metal Oxide	VRS-CY1JF101J	R963	47 1/16W Metal Oxide	VRS-CY1JF470J
R896	2.2k 1/16W Metal Oxide	VRS-CY1JF222J	R964	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R898	10k 1/16W Metal Oxide	VRS-CY1JF103J	R965	47 1/16W Metal Oxide	VRS-CY1JF470J
R899	10k 1/16W Metal Oxide	VRS-CY1JF103J	R966	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R900	10k 1/16W Metal Oxide	VRS-CY1JF103J	R967	22k 1/16W Metal Oxide	VRS-CY1JF223J
R901	18k 1/16W Metal Oxide	VRS-CY1JF183J	R968	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R902	22k 1/16W Metal Oxide	VRS-CY1JF223J	R969	47 1/16W Metal Oxide	VRS-CY1JF470J
R903	18k 1/16W Metal Oxide	VRS-CY1JF183J	R970	11k 1/16W Metal Oxide	VRS-CY1JF113F
R904	22k 1/16W Metal Oxide	VRS-CY1JF223J	R971	6.8k 1/16W Metal Oxide	VRS-CY1JF682F
R905	18k 1/16W Metal Oxide	VRS-CY1JF183J	R972	1.5k 1/16W Metal Oxide	VRS-CY1JF152F
R906	22k 1/16W Metal Oxide	VRS-CY1JF223J	R973	47 1/16W Metal Oxide	VRS-CY1JF470J
R907	56 1/16W Metal Oxide	VRS-CY1JF560J	R974	1.0M 1/16W Metal Oxide	VRS-CY1JF105J
R908	150 1/8W Metal Oxide	VRS-TQ2BD151J	R975	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R909	470 1/16W Metal Oxide	VRS-CY1JF471J	R976	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R910	180 1/16W Metal Oxide	VRS-CY1JF181J	R977	10k 1/16W Metal Oxide	VRS-CY1JF103J
R911	470 1/16W Metal Oxide	VRS-CY1JF471J	R978	8.2k 1/16W Metal Oxide	VRS-CY1JF822J
R912	4.3k 1/16W Metal Oxide	VRS-CY1JF432J	R979	33k 1/16W Metal Oxide	VRS-CY1JF333F
R913	150 1/8W Metal Oxide	VRS-TQ2BD151J	R980	56 1/16W Metal Oxide	VRS-CY1JF560J
R914	1.5k 1/16W Metal Oxide	VRS-CY1JF152J	R981	10k 1/16W Metal Oxide	VRS-CY1JF103J
R915	56 1/16W Metal Oxide	VRS-CY1JF560J	R982	10k 1/16W Metal Oxide	VRS-CY1JF103J
R923	56 1/16W Metal Oxide	VRS-CY1JF560J	R983	10k 1/16W Metal Oxide	VRS-CY1JF103J

Mark No.	Description	Part No.
R984	22k 1/16W Metal Oxide	VRS-CY1JF223J
R987	330 1/16W Metal Oxide	VRS-CY1JF331F
R988	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
R989	120 1/16W Metal Oxide	VRS-CY1JF121FY
R990	39k 1/16W Metal Oxide	VRS-CY1JF393F
R991	47 1/16W Metal Oxide	VRS-CY1JF470J
R992	100 1/16W Metal Oxide	VRS-CY1JF101J
R993	100 1/16W Metal Oxide	VRS-CY1JF101J
R994	100 1/16W Metal Oxide	VRS-CY1JF101J
R995	100 1/16W Metal Oxide	VRS-CY1JF101J
R996	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R997	56 1/16W Metal Oxide	VRS-CY1JF560J
R998	56 1/16W Metal Oxide	VRS-CY1JF560J
R999	100 1/16W Metal Oxide	VRS-CY1JF101J
R1501	100 1/16W Metal Oxide	VRS-CY1JF101J
R1502	100 1/16W Metal Oxide	VRS-CY1JF101J
R1503	100 1/16W Metal Oxide	VRS-CY1JF101J
R1504	100 1/16W Metal Oxide	VRS-CY1JF101J
R1505	100 1/16W Metal Oxide	VRS-CY1JF101J
R1506	100 1/16W Metal Oxide	VRS-CY1JF101J
R1507	100 1/16W Metal Oxide	VRS-CY1JF101J
R1515	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1516	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1517	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1518	100 1/16W Metal Oxide	VRS-CY1JF101J
R1519	100 1/16W Metal Oxide	VRS-CY1JF101J
R1521	390 1/16W Metal Oxide	VRS-CY1JF391J
R1522	390 1/16W Metal Oxide	VRS-CY1JF391J
R1524	390 1/16W Metal Oxide	VRS-CY1JF391J
R1525	390 1/16W Metal Oxide	VRS-CY1JF391J
R1529	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1530	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R1531	100 1/16W Metal Oxide	VRS-CY1JF101J
R1533	100 1/16W Metal Oxide	VRS-CY1JF101J
R1534	100 1/16W Metal Oxide	VRS-CY1JF101J
R1535	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1538	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1539	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1544	100 1/16W Metal Oxide	VRS-CY1JF101J
R1545	100 1/16W Metal Oxide	VRS-CY1JF101J
R1550	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1551	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1564	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1565	390 1/16W Metal Oxide	VRS-CY1JF391J
R1567	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1568	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1569	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1570	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1571	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1572	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1573	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1594	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1596	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1701	68k 1/16W Metal Oxide	VRS-CY1JF683J
R1702	2.7k 1/16W Metal Oxide	VRS-CY1JF272J
R1706	33k 1/16W Metal Oxide	VRS-CY1JF333J
R1707	27k 1/16W Metal Oxide	VRS-CY1JF273J
R1708	39k 1/16W Metal Oxide	VRS-CY1JF393J
R1709	10 1/4W Metal Oxide	VRS-TW2ED100J
R1711	100 1/16W Metal Oxide	VRS-CY1JF101J

Mark No.	Description	Part No.
R1712	100 1/16W Metal Oxide	VRS-CY1JF101J
R1713	100 1/16W Metal Oxide	VRS-CY1JF101J
R1714	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1718	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1719	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1721	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1722	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1724	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1726	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1727	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1728	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1736	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R1743	12 1/4W Metal Oxide	VRS-TW2ED120J
R1744	3.3k 1/16W Metal Oxide	VRS-CY1JF332F
R1745	330 1/16W Metal Oxide	VRS-CY1JF331F
R1746	1.5k 1/16W Metal Oxide	VRS-CY1JF152F
R1747	47k 1/16W Metal Oxide	VRS-CY1JF473F
R1751	470 1/4W Metal Oxide	VRS-TW2ED471J
R1753	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1756	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R1763	12 1/4W Metal Oxide	VRS-TW2ED120J
R1764	2.7k 1/16W Metal Oxide	VRS-CY1JF272F
R1765	330 1/16W Metal Oxide	VRS-CY1JF331F
R1766	1.8k 1/16W Metal Oxide	VRS-CY1JF182F
R1767	12k 1/16W Metal Oxide	VRS-CY1JF123F
R1774	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1775	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
R1776	560 1/16W Metal Oxide	VRS-CY1JF561F
R1777	30k 1/16W Metal Oxide	VRS-CY1JF303F
R1778	4.7k 1/16W Metal Oxide	VRS-CY1JF472F
R1779	39k 1/16W Metal Oxide	VRS-CY1JF393F
R1780	47k 1/16W Metal Oxide	VRS-CY1JF473J
R1781	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1782	12 1/4W Metal Oxide	VRS-TW2ED120J
R1783	1.0k 1/16W Metal Oxide	VRS-CY1JF102F
R1784	12k 1/16W Metal Oxide	VRS-CY1JF123J
R1785	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R1786	0 1/16W Metal Oxide	VRS-CY1JF000J
R1788	820 1W Metal Oxide	VRS-CR3AD821J
R1790	68k 1/8W Metal Oxide	VRS-TQ2BD683J
R1791	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1792	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1794	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1901	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1902	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1905	100 1/16W Metal Oxide	VRS-CY1JF101J
R1906	100 1/16W Metal Oxide	VRS-CY1JF101J
R1907	100 1/16W Metal Oxide	VRS-CY1JF101J
R1911	0 1/16W Metal Oxide	VRS-CY1JF000J
R1913	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1915	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1916	100 1/16W Metal Oxide	VRS-CY1JF101J
R1917	100 1/16W Metal Oxide	VRS-CY1JF101J
R1920	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1921	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1922	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1923	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1926	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1927	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1928	10k 1/16W Metal Oxide	VRS-CY1JF103J

Mark No.	Description	Part No.
R1929	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1930	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1931	100 1/16W Metal Oxide	VRS-CY1JF101J
R1932	100 1/16W Metal Oxide	VRS-CY1JF101J
R1933	100 1/16W Metal Oxide	VRS-CY1JF101J
R1934	100 1/16W Metal Oxide	VRS-CY1JF101J
R1935	100 1/16W Metal Oxide	VRS-CY1JF101J
R1936	100 1/16W Metal Oxide	VRS-CY1JF101J
R1937	100 1/16W Metal Oxide	VRS-CY1JF101J
R1938	100 1/16W Metal Oxide	VRS-CY1JF101J
R1941	100 1/16W Metal Oxide	VRS-CY1JF101J
R1942	100 1/16W Metal Oxide	VRS-CY1JF101J
R1943	100 1/16W Metal Oxide	VRS-CY1JF101J
R1944	100 1/16W Metal Oxide	VRS-CY1JF101J
R7001	470 1/16W Metal Oxide	VRS-CY1JF471J
R7002	470 1/16W Metal Oxide	VRS-CY1JF471J
R7003	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7004	33k 1/16W Metal Oxide	VRS-CY1JF333J
R7005	270 1/16W Metal Oxide	VRS-CY1JF271J
R7006	270 1/16W Metal Oxide	VRS-CY1JF271J
R7007	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
R7008	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
R7009	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R7010	470 1/16W Metal Oxide	VRS-CY1JF471J
R7011	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7012	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R7013	47k 1/16W Metal Oxide	VRS-CY1JF473J
R7014	220k 1/16W Metal Oxide	VRS-CY1JF224J
R7015	220 1/16W Metal Oxide	VRS-CY1JF221J
R7016	0 1/8W Metal Oxide	VRS-TQ2BD000J
R7017	100 1/16W Metal Oxide	VRS-CY1JF101J
R7018	100k 1/16W Metal Oxide	VRS-CY1JF104J
R7019	100k 1/16W Metal Oxide	VRS-CY1JF104J
R7020	100k 1/16W Metal Oxide	VRS-CY1JF104J
R7021	100k 1/16W Metal Oxide	VRS-CY1JF104J
R7023	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7027	0 1/16W Metal Oxide	VRS-CY1JF000J
R7028	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7031	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7034	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7035	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7036	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7037	910 1/16W Metal Oxide	VRS-CY1JF911J
R7038	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
R7039	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
R7040	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R7041	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7042	910 1/16W Metal Oxide	VRS-CY1JF911J
R7043	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
R7044	1.5k 1/16W Metal Oxide	VRS-CY1JF152J
R7045	2.2 1/2W Metal Oxide	VRS-TX2HF2R2JY
R7046	2.2 1/2W Metal Oxide	VRS-TX2HF2R2JY
R7049	47 1/16W Metal Oxide	VRS-CY1JF470J
R7050	620 1/16W Metal Oxide	VRS-CY1JF621JY
R7201	1.0M 1/16W Metal Oxide	VRS-CY1JF105J
R7202	220 1/16W Metal Oxide	VRS-CY1JF221J
R7203	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R7205	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7206	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7207	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7208	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7209	100 1/16W Metal Oxide	VRS-CY1JF101J
R7210	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7211	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7215	10k 1/16W Metal Oxide	VRS-CY1JF103J
R7216	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7217	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7224	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R7225	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
R7237	100 1/16W Metal Oxide	VRS-CY1JF101J
R7238	10k 1/16W Metal Oxide	VRS-CY1JF103J
R7239	10k 1/16W Metal Oxide	VRS-CY1JF103J
R7240	1.0k 1/16W Metal Oxide	VRS-CY1JF102J

MISCELLANEOUS PARTS

F1702	Fuse 4A	QFS-D0011CEZZ
FB401	Ferrite Bead	RBLN-0061TAZZ
FB601	Ferrite Bead	RBLN-0061TAZZ
FB602	Ferrite Bead	RBLN-0061TAZZ
FB603	Ferrite Bead	RBLN-0061TAZZ
FB801	Ferrite Bead	RBLN-0061TAZZ
FB802	Ferrite Bead	RBLN-0061TAZZ
FB803	Ferrite Bead	RBLN-0061TAZZ
FB1701	Ferrite Bead	RBLN-0210TAZZ
FB1702	Ferrite Bead	RBLN-0210TAZZ
FB1703	Ferrite Bead	RBLN-0210TAZZ
FB1704	Ferrite Bead	RBLN-0210TAZZ
FB1705	Ferrite Bead	RBLN-0210TAZZ
FB1706	Ferrite Bead	RBLN-0210TAZZ
FB1707	Ferrite Bead	RBLN-0210TAZZ
FB1709	Ferrite Bead	RBLN-0210TAZZ
FB1710	Ferrite Bead	RBLN-0210TAZZ
FB1711	Ferrite Bead	RBLN-0210TAZZ
FB1712	Ferrite Bead	RBLN-0210TAZZ
FB1713	Ferrite Bead	RBLN-0210TAZZ
FB1714	Ferrite Bead	RBLN-0210TAZZ
FB1715	Ferrite Bead	RBLN-0210TAZZ
FB1716	Ferrite Bead	RBLN-0210TAZZ
FB1717	Ferrite Bead	RBLN-0210TAZZ
FB1718	Ferrite Bead	RBLN-0210TAZZ
FB1719	Ferrite Bead	RBLN-0210TAZZ
FB1720	Ferrite Bead	RBLN-0210TAZZ
FB1721	Ferrite Bead	RBLN-0210TAZZ
FB1722	Ferrite Bead	RBLN-0210TAZZ
FB1723	Ferrite Bead	RBLN-0210TAZZ
FB1724	Ferrite Bead	RBLN-0051TAZZ
FB1725	Ferrite Bead	RBLN-0210TAZZ
FB1727	Ferrite Bead	RBLN-0210TAZZ
FB1728	Ferrite Bead	RBLN-0210TAZZ
FB1729	Ferrite Bead	RBLN-0210TAZZ
FB1730	Ferrite Bead	RBLN-0210TAZZ
FB1731	Ferrite Bead	RBLN-0006TAZZ
FB1732	Ferrite Bead	RBLN-0210TAZZ
FB1733	Ferrite Bead	RBLN-0210TAZZ
FB1734	Ferrite Bead	RBLN-0210TAZZ
FB1735	Ferrite Bead	RBLN-0210TAZZ
FB1736	Ferrite Bead	RBLN-0210TAZZ
FB1737	Ferrite Bead	RBLN-0210TAZZ
FB1740	Ferrite Bead	RBLN-0210TAZZ
FB1741	Ferrite Bead	RBLN-0210TAZZ

Mark No.	Description	Part No.
FB1742	Ferrite Bead	RBLN-0210TAZZ
FB1744	Ferrite Bead	RBLN-0210TAZZ
FB1745	Ferrite Bead	RBLN-0210TAZZ
FB1746	Ferrite Bead	RBLN-0210TAZZ
FB1747	Ferrite Bead	RBLN-0210TAZZ
FB1748	Ferrite Bead	RBLN-0210TAZZ
FB1749	Ferrite Bead	RBLN-0210TAZZ
FB1750	Ferrite Bead	RBLN-0210TAZZ
FB1751	Ferrite Bead	RBLN-0210TAZZ
FB1752	Ferrite Bead	RBLN-0210TAZZ
FB1901	Ferrite Bead	RBLN-0060TAZZ
FB1902	Ferrite Bead	RBLN-0060TAZZ
FB7001	Ferrite Bead	RBLN-0061TAZZ
FB7002	Ferrite Bead	RBLN-0061TAZZ
FB7003	Ferrite Bead	RBLN-0061TAZZ
FB7004	Ferrite Bead	RBLN-0059CEZZY
FB7005	Ferrite Bead	RBLN-0059CEZZY
FB7006	Ferrite Bead	RBLN-0059CEZZY
FB7007	Ferrite Bead	RBLN-0059CEZZY
FB7008	Ferrite Bead	RBLN-0061TAZZ
FB7201	Ferrite Bead	RBLN-0061TAZZ
FB7203	Ferrite Bead	RBLN-0061TAZZ
FH1703	Fuse Holder	QFSHD1002CEZZ
FH1704	Fuse Holder	QFSHD1002CEZZ
P801	Plug 6-Pin	QPLGN0056CEZZY
P1502	Plug 12-Pin	QPLGN0549FJZZY
P1504	Plug 10-Pin	QPLGN0060CEZZY
P1702	Plug 13-Pin	QPLGN0550FJZZY
P1703	Plug 12-Pin	QPLGN0062CEZZY
P1901	Plug	QPLGN1094CEZZ
SC1501	Socket 30-Pin	QSOCN0490FJZZ
SC1502	Socket 50-Pin	QSOCN0464FJZZ
SC1503	Socket 30-Pin	QSOCN0550FJZZY
SC1504	Socket 30-Pin	QSOCN0490FJZZ
	Connecting Cord	QCNW-6077CEZZ

B FRONT UNIT

IC

IC3401	24LC21T	VHi24LC21//-1

TRANSISTOR

Q3401	2SC2735	VS2SC2735//1E
Q3402	2SC2735	VS2SC2735//1E
Q3403	2SC2735	VS2SC2735//1E

DIODE

D3401	Zener Diode	RH-EX1264CEZZ
D3402	Diode	VHDMA3120WA-1
D3403	Diode	VHDMA3120WA-1
D3404	Diode	VHDMA3120WA-1
D3405	Zener Diode	RH-EX1264CEZZ
D3406	Zener Diode	RH-EX1264CEZZ
D3407	Zener Diode	RH-EX1271CEZZ
D3408	Zener Diode	RH-EX1271CEZZ
D3409	Diode	VHDDAN222//-1

FILTER, COIL

FL3401	Filter	RFiLN0003TAZZ
FL3402	Filter	RFiLN0003TAZZ
FL3403	Filter	RFiLN0003TAZZ
FL3412	Filter	RFiLN0017TAZZ
FL3413	Filter	RFiLN0017TAZZ
FL3414	Filter	RFiLN0017TAZZ
L3401	Peaking 10µH	VP-1M100J1R6N

CAPACITOR

C3401	100 6.3V Electrolytic	VCEAPF0JW107M
C3402	0.01 50V Ceramic	VCKYCY1HB103K
C3403	0.1 25V Ceramic	VCKYCY1EF104Z
C3404	47 16V Electrolytic	VCEAPF1CW476M
C3405	0.01 50V Ceramic	VCKYCY1HB103K
C3406	10 16V Electrolytic	VCEAPF1CN106M
C3407	0.01 50V Ceramic	VCKYCY1HB103K
C3408	10 16V Electrolytic	VCEAPF1CN106M
C3409	0.01 50V Ceramic	VCKYCY1HB103K
C3410	10 16V Electrolytic	VCEAPF1CN106M
C3411	10 16V Electrolytic	VCEAPF1CN106M
C3412	10 16V Electrolytic	VCEAPF1CN106M
C3414	10p 50V Ceramic	VCCCCY1HH100D
C3415	10 16V Electrolytic	VCEAPF1CN106M
C3416	0.1 25V Ceramic	VCKYCY1EF104Z
C3417	10p 50V Ceramic	VCCCCY1HH100D
C3418	10 16V Electrolytic	VCEAPF1CN106M
C3420	0.01 50V Ceramic	VCKYCY1HB103K
C3421	0.01 50V Ceramic	VCKYCY1HB103K
C3422	0.01 50V Ceramic	VCKYCY1HB103K
C3423	0.1 25V Ceramic	VCKYCY1EF104Z
C3426	10 25V Electrolytic	VCEAPW1EN106M
C3427	10 25V Electrolytic	VCEAPW1EN106M
C3428	100p 50V Ceramic	VCCCCY1HH101J
C3429	100p 50V Ceramic	VCCCCY1HH101J
C3430	56p 50V Ceramic	VCCCCY1HH560J
C3431	56p 50V Ceramic	VCCCCY1HH560J
C3432	100p 50V Ceramic	VCCCCY1HH101J
C3433	1000p 50V Ceramic	VCKYCY1HB102K
C3434	1000p 50V Ceramic	VCKYCY1HB102K
C3435	100p 50V Ceramic	VCCCCY1HH101J
C3436	1000p 50V Ceramic	VCKYCY1HB102K
C3437	1000p 50V Ceramic	VCKYCY1HB102K

RESISTOR

R3401	560 1/8W Metal Oxide	VRS-TQ2BD561J
R3402	100 1/16W Metal Oxide	VRS-CY1JF101J
R3403	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R3404	10k 1/16W Metal Oxide	VRS-CY1JF103J
R3405	560 1/8W Metal Oxide	VRS-TQ2BD561J
R3406	100 1/16W Metal Oxide	VRS-CY1JF101J
R3407	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R3408	10k 1/16W Metal Oxide	VRS-CY1JF103J
R3409	560 1/8W Metal Oxide	VRS-TQ2BD561J
R3410	100 1/16W Metal Oxide	VRS-CY1JF101J
R3411	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R3412	10k 1/16W Metal Oxide	VRS-CY1JF103J
R3413	100 1/16W Metal Oxide	VRS-CY1JF101J
R3414	100 1/16W Metal Oxide	VRS-CY1JF101J
R3415	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R3416	100 1/16W Metal Oxide	VRS-CY1JF101J
R3417	47k 1/16W Metal Oxide	VRS-CY1JF473J
R3418	47k 1/16W Metal Oxide	VRS-CY1JF473J
R3422	75 1/4W Metal Oxide	VRS-TW2ED750J
R3423	75 1/4W Metal Oxide	VRS-TW2ED750J
R3424	75 1/4W Metal Oxide	VRS-TW2ED750J

Mark	No.	Description	Part No.
	R3425	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3427	0 1/16W Metal Oxide	VRS-CY1JF000J
A	R3428	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3429	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3430	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3431	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3432	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R3433	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3434	75 1/4W Metal Oxide	VRS-TW2ED750J
	R3435	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3436	270k 1/16W Metal Oxide	VRS-CY1JF274F
	R3437	75 1/8W Metal Oxide	VRS-TQ2BD750J
	R3439	47 1/16W Metal Oxide	VRS-CY1JF470J
B	R3440	47 1/16W Metal Oxide	VRS-CY1JF470J
	R3441	47 1/16W Metal Oxide	VRS-CY1JF470J
	R3442	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3443	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3444	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3445	4.7 1/4W Metal Oxide	VRS-TW2ED4R7J
	R3446	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3447	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R3448	4.7 1/4W Metal Oxide	VRS-TW2ED4R7J
	R3449	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3450	100 1/16W Metal Oxide	VRS-CY1JF101J
C	R3451	100 1/16W Metal Oxide	VRS-CY1JF101J
	R3453	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R3454	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R3455	1.0k 1/16W Metal Oxide	VRS-TV1JD102J
	R3456	1.0k 1/16W Metal Oxide	VRS-TV1JD102J

SWITCH

	SW3401	Switch	QSW-K0069CEZZ

MISCELLANEOUS PARTS

	FB3401	Ferrite Bead	RBLN-0076TAZZ
	FB3402	Ferrite Bead	RBLN-0060TAZZ
D	FB3403	Ferrite Bead	RBLN-0060TAZZ
	FB3404	Ferrite Bead	RBLN-0060TAZZ
	FB3405	Ferrite Bead	RBLN-0062TAZZ
	FB3406	Ferrite Bead	RBLN-0062TAZZ
	FB3407	Ferrite Bead	RBLN-0062TAZZ
	FB3408	Ferrite Bead	RBLN-0062TAZZ
	FB3409	Ferrite Bead	RBLN-0062TAZZ
	J3401	Jack 3-RCA/DIN	QJAKZ0102PEZZ
	J3403	Jack (PC-SIN)	QJAKJ0047CEZZ
	P3401	Plug 12-Pin	QPLGN1278GEZZ
	P3402	Plug 18-Pin	QPLGN0428FJZZ
E	SC3401	Socket 15-Pin D-sub	QSOCN1594CEZZ

C AV UNIT

TUNER

	TU1101	Tuner	VTUVT2U5UW253
	TU1102	Tuner	VTUVT2U5UF253

IC

	IC1101	BA05FP	VHiBA05FP++-1Y
	IC1102	M62320FP	VHiM62320FP-1
	IC1103	BA05FP	VHiBA05FP++-1Y
	IC1104	MM1506XNRE	VHiMM1506XN-1
F	IC1105	MM1506XNRE	VHiMM1506XN-1
	IC1301	CXA2069Q	VHiCXA2069Q-1
	IC1401	MM1519XG	VHiMM1519XQ-1
	IC1601	Z8623012SSC	VHiZ86230S+-1Y
	IC1602	Z8612912SSC	VHiZ86129S+-1Y
	IC1603	Z8623012SSC	VHiZ86230S+-1Y
	IC2501	MSP3440G-QA-B8	RH-IX3370CEN1Q
	IC2503	PST529DMT	VHiPST529DM-1
	IC2504	NJM2233BM	VHiNJ2233BM-1Y
	IC2505	NJM2233BM	VHiNJ2233BM-1Y

TRANSISTOR

	Q1101	2SC3928AR	VS2SC3928AR-1
	Q1102	DTC314TK	VSDTC314TK/-1
	Q1103	DTC314TK	VSDTC314TK/-1
	Q1104	2SC3928AR	VS2SC3928AR-1
	Q1105	2SA1530AR	VS2SA1530AR-1
	Q1106	2SA1530AR	VS2SA1530AR-1
	Q1107	2SA1530AR	VS2SA1530AR-1
	Q1108	2SC3928AR	VS2SC3928AR-1
	Q1111	2SC3928AR	VS2SC3928AR-1
	Q1112	2SA1530AR	VS2SA1530AR-1
	Q1401	2SC3928AR	VS2SC3928AR-1
	Q1402	2SC3928AR	VS2SC3928AR-1
	Q1403	2SC3928AR	VS2SC3928AR-1
	Q1405	2SA1530AR	VS2SA1530AR-1
	Q1406	2SA1530AR	VS2SA1530AR-1
	Q1407	2SA1530AR	VS2SA1530AR-1
	Q1581	2SA1298Y(PDP-R03T)	VS2SA1298Y/-1Y
	Q1582	DTC144TE(PDP-R03T)	VSDTC144TE/-1Y
	Q1601	2SC3928AR	VS2SC3928AR-1
	Q1602	2SC3928AR	VS2SC3928AR-1
	Q2502	2SA1530AR	VS2SA1530AR-1
	Q2503	2SA1530AR	VS2SA1530AR-1
	Q2504	2SA1530AR	VS2SA1530AR-1
	Q2505	2SA1530AR	VS2SA1530AR-1
	Q2506	2SA1530AR	VS2SA1530AR-1
	Q2510	DTA144EE	VSDTA144EE/-1
	Q2511	DTC144EE	VSDTC144EE/-1

DIODE

	D1101	Zener Diode	RH-EX1264CEZZ
	D1102	Zener Diode	RH-EX1264CEZZ
	D1103	Diode	VHDHSU119//-1
	D1104	Diode	VHDHSU119//-1
	D1110	Zener Diode	RH-EX0207CEZZY
	D1301	Zener Diode	RH-EX1264CEZZ
	D1302	Zener Diode	RH-EX1264CEZZ
	D1303	Zener Diode	RH-EX1264CEZZ
	D1304	Zener Diode	RH-EX1264CEZZ
	D1305	Zener Diode	RH-EX1264CEZZ
	D1306	Zener Diode	RH-EX1264CEZZ
	D1307	Zener Diode	RH-EX1264CEZZ
	D1308	Zener Diode	RH-EX1264CEZZ
	D1309	Zener Diode	RH-EX1264CEZZ
	D1310	Zener Diode	RH-EX1264CEZZ
	D1311	Zener Diode	RH-EX1264CEZZ
	D1312	Zener Diode	RH-EX1264CEZZ
	D1313	Zener Diode	RH-EX1264CEZZ
	D1401	Diode	VHDMA157A//-1
	D1402	Diode	VHDMA157A//-1
	D1403	Diode	VHDMA157A//-1
	D1406	Diode	VHDMA157A//-1
	D1407	Diode	VHDMA157A//-1

Mark No.	Description	Part No.
D1411	Diode	VHDMA157A//-1
D1412	Diode	VHDMA157A//-1
D1413	Diode	VHDMA157A//-1
D1581	Diode(PDP-R03T)	VHDHSU119//-1
D1582	Diode(PDP-R03T)	VHDHSU119//-1
D1583	Diode(PDP-R03T)	VHDHSU119//-1
D2502	Diode	VHDDAN222//-1
D2503	Diode	VHD1SS250//1E
D2504	Diode	VHD1SS250//1E
D2505	Diode	VHDMA157A//-1
D2506	Diode	VHDHSU119//-1

PACKAGED CIRCUIT

X1601	Crystal	RCRSCA005WJZZY
X1602	Crystal	RCRSCA005WJZZY
X2501	Crystal	RCRSB0250GEZZ

FILTER, COIL

FL1101	Filter	RFiLN0017TAZZ
FL1102	Filter	RFiLN0017TAZZ
FL1103	Filter	RFiLN0017TAZZ
FL1104	Filter	RFiLN0017TAZZ
FL1105	Filter	RFiLN0017TAZZ
FL1106	Filter	RFiLN0017TAZZ
FL1107	Filter	RFiLN0017TAZZ
FL1108	Filter	RFiLN0017TAZZ
FL1109	Filter	RFiLN0017TAZZ
FL1110	Filter	RFiLN0017TAZZ
FL1111	Filter	RFiLN0017TAZZ
FL1112	Filter	RFiLN0017TAZZ
FL1113	Filter	RFiLN0017TAZZ
FL1114	Filter	RFiLN0017TAZZ
FL1115	Filter	RFiLN0017TAZZ
FL1116	Filter	RFiLN0017TAZZ
FL1117	Filter	RFiLN0017TAZZ
FL1118	Filter	RFiLN0017TAZZ
FL1119	Filter	RFiLN0003TAZZ
FL1120	Filter	RFiLN0003TAZZ
FL1121	Filter	RFiLN0003TAZZ
L1101	Peaking 4.7µH	VP-1M4R7J1R2N
L1102	Peaking 4.7µH	VP-1M4R7J1R2N
L1401	Peaking 10µH	VP-1M100J1R6N
L2501	Peaking 100µH	VP-1M101J7R7N
L2502	Peaking 4.7µH	VP-1M4R7J1R2N
L2503	Peaking 100µH	VP-1M101J7R7N
L2504	Peaking 4.7µH	VP-1M4R7J1R2N

CONTROL

R1121	Variable Resistor	RVR-M7997TAZZ
R1219	Variable Resistor	RVR-M7997TAZZ

CAPACITOR

C1101	0.01 50V Ceramic	VCKYCY1HB103K
C1102	220 6.3V Electrolytic	VCAAPF0JJ227MY
C1103	0.01 50V Ceramic	VCKYCY1HB103K
C1104	0.1 25V Ceramic	VCKYCY1EF104Z
C1105	100 6.3V Electrolytic	VCAAPF0JJ107MY
C1106	39 16V Electrolytic	VCAAPF1CJ396MY
C1107	0.1 25V Ceramic	VCKYCY1EF104Z
C1108	0.01 50V Ceramic	VCKYCY1HB103K
C1109	0.01 50V Ceramic	VCKYCY1HB103K
C1110	0.01 50V Ceramic	VCKYCY1HB103K

Mark No.	Description	Part No.
C1111	1000p 50V Ceramic	VCKYCY1HB102K
C1112	0.1 25V Ceramic	VCKYCY1EF104Z
C1113	10 16V Elect.(N.P)	VCE9PF1CW106M
C1114	0.1 25V Ceramic	VCKYCY1EF104Z
C1115	0.01 50V Ceramic	VCKYCY1HB103K
C1116	0.01 50V Ceramic	VCKYCY1HB103K
C1119	0.01 50V Ceramic	VCKYCY1HB103K
C1120	0.01 50V Ceramic	VCKYCY1HB103K
C1121	0.1 25V Ceramic	VCKYCY1EF104Z
C1122	0.01 50V Ceramic	VCKYCY1HB103K
C1123	1.0 16V Ceramic	VCKYTV1CB105K
C1124	1.0 16V Ceramic	VCKYTV1CB105K
C1125	0.01 50V Ceramic	VCKYCY1HB103K
C1126	0.01 50V Ceramic	VCKYCY1HB103K
C1127	0.1 25V Ceramic	VCKYCY1EF104Z
C1128	0.01 50V Ceramic	VCKYCY1HB103K
C1129	0.01 50V Ceramic	VCKYCY1HB103K
C1130	0.01 50V Ceramic	VCKYCY1HB103K
C1131	0.01 50V Ceramic	VCKYCY1HB103K
C1132	0.1 25V Ceramic	VCKYCY1EF104Z
C1133	1.0 16V Ceramic	VCKYTV1CB105K
C1134	470 16V Electrolytic	VCEAPW1CN477M
C1135	1.0 16V Ceramic	VCKYTV1CB105K
C1136	10 16V Electrolytic	VCEAPF1CW106M
C1137	1.0 16V Ceramic	VCKYTV1CB105K
C1138	1.0 16V Ceramic	VCKYTV1CB105K
C1139	10 16V Electrolytic	VCEAPF1CW106M
C1140	1.0 16V Ceramic	VCKYTV1CB105K
C1141	1.0 16V Ceramic	VCKYTV1CB105K
C1142	10 16V Electrolytic	VCEAPF1CW106M
C1143	1.0 16V Ceramic	VCKYTV1CB105K
C1144	1.0 16V Ceramic	VCKYTV1CB105K
C1145	1.0 16V Ceramic	VCKYTV1CB105K
C1146	470 16V Electrolytic	VCEAPW1CN477M
C1147	1.0 16V Ceramic	VCKYTV1CB105K
C1148	1.0 16V Ceramic	VCKYTV1CB105K
C1149	1.0 16V Ceramic	VCKYTV1CB105K
C1150	1.0 16V Ceramic	VCKYTV1CB105K
C1151	1.0 16V Ceramic	VCKYTV1CB105K
C1152	1.0 16V Ceramic	VCKYTV1CB105K
C1153	33p 50V Ceramic	VCCCCY1HH330J
C1154	33p 50V Ceramic	VCCCCY1HH330J
C1155	10 16V Electrolytic	VCEAPF1CW106M
C1156	10 16V Electrolytic	VCEAPF1CW106M
C1157	10 16V Electrolytic	VCEAPF1CW106M
C1158	10 16V Electrolytic	VCEAPF1CW106M
C1159	0.1 25V Ceramic	VCKYCY1EF104Z
C1160	0.01 50V Ceramic	VCKYCY1HB103K
C1161	220 6.3V Electrolytic	VCAAPF0JJ227MY
C1162	0.01 50V Ceramic	VCKYCY1HB103K
C1164	100 6.3V Electrolytic	VCAAPF0JJ107MY
C1165	39 16V Electrolytic	VCAAPF1CJ396MY
C1166	100p 50V Ceramic	VCCCCY1HH101J
C1167	100p 50V Ceramic	VCCCCY1HH101J
C1168	100p 50V Ceramic	VCCCCY1HH101J
C1169	100p 50V Ceramic	VCCCCY1HH101J
C1170	100p 50V Ceramic	VCCCCY1HH101J
C1171	100p 50V Ceramic	VCCCCY1HH101J
C1172	100p 50V Ceramic	VCCCCY1HH101J
C1173	100p 50V Ceramic	VCCCCY1HH101J

Mark	No.	Description	Part No.
	C1174	10 16V Electrolytic	VCEAPF1CN106M
	C1175	10 16V Electrolytic	VCEAPF1CN106M
A	C1176	10 16V Electrolytic	VCEAPF1CN106M
	C1177	0.1 25V Ceramic	VCKYCY1EF104Z
	C1178	0.1 25V Ceramic	VCKYCY1EF104Z
	C1179	1000p 50V Ceramic	VCKYCY1HB102K
	C1180	10 16V Elect.(N.P)	VCE9PF1CW106M
	C1181	0.1 25V Ceramic	VCKYCY1EF104Z
	C1182	10 50V Electrolytic	VCEAPF1HW106MY
	C1309	0.1 25V Ceramic	VCKYCY1EF104Z
	C1310	0.1 25V Ceramic	VCKYCY1EF104Z
	C1311	22 16V Electrolytic	VCEAPF1CW226M
	C1312	10 10V Elect.(N.P)	VCE9PF1AW106M
B	C1313	1000p 50V Ceramic	VCKYCY1HB102K
	C1314	1000p 50V Ceramic	VCKYCY1HB102K
	C1316	1.0 16V Ceramic	VCKYTV1CB105K
	C1320	100p 50V Ceramic	VCCCCY1HH101J
	C1321	100p 50V Ceramic	VCCCCY1HH101J
	C1324	100p 50V Ceramic	VCCCCY1HH101J
	C1325	100p 50V Ceramic	VCCCCY1HH101J
	C1326	100p 50V Ceramic	VCCCCY1HH101J
	C1327	100p 50V Ceramic	VCCCCY1HH101J
	C1328	0.1 25V Ceramic	VCKYCY1EF104Z
	C1401	0.1 16V Ceramic	VCKYCY1CB104K
C	C1402	0.1 16V Ceramic	VCKYCY1CB104K
	C1404	0.1 16V Ceramic	VCKYCY1CB104K
	C1406	0.1 25V Ceramic	VCKYCY1EF104Z
	C1407	0.1 25V Ceramic	VCKYCY1EF104Z
	C1408	0.1 25V Ceramic	VCKYCY1EF104Z
	C1409	100 16V Electrolytic	VCEAPF1CW107M
	C1410	0.1 16V Ceramic	VCKYCY1CB104K
	C1411	0.1 16V Ceramic	VCKYCY1CB104K
	C1412	1.0 16V Ceramic	VCKYTV1CB105K
	C1413	1.0 16V Ceramic	VCKYTV1CB105K
	C1415	0.1 25V Ceramic	VCKYCY1EF104Z
D	C1417	0.1 25V Ceramic	VCKYCY1EF104Z
	C1419	0.1 25V Ceramic	VCKYCY1EF104Z
	C1420	1.0 16V Ceramic	VCKYTV1CB105K
	C1421	1.0 16V Ceramic	VCKYTV1CB105K
	C1422	100 16V Electrolytic	VCEAPF1CW107M
	C1434	0.1 16V Ceramic	VCKYCY1CB104K
	C1435	0.1 16V Ceramic	VCKYCY1CB104K
	C1436	0.1 16V Ceramic	VCKYCY1CB104K
	C1581	22 16V Electrolytic(PDP-R03T)	VCEAPF1CW226M
	C1601	0.1 16V Ceramic	VCKYCY1CB104K
E	C1602	27p 50V Ceramic	VCCCCY1HH270J
	C1603	18p 50V Ceramic	VCCCCY1HH180J
	C1604	560p 50V Ceramic	VCCCCY1HH561JY
	C1605	0.1 25V Ceramic	VCKYCY1EF104Z
	C1606	0.068 16V Ceramic	VCKYCY1CB683KY
	C1607	6800p 50V Ceramic	VCKYCY1HB682KY
	C1608	0.1 25V Ceramic	VCKYCY1EF104Z
	C1609	0.1 25V Ceramic	VCKYCY1EF104Z
	C1612	0.1 16V Ceramic	VCKYCY1CB104K
	C1614	560p 50V Ceramic	VCCCCY1HH561JY
	C1615	0.1 25V Ceramic	VCKYCY1EF104Z
F	C1616	0.068 16V Ceramic	VCKYCY1CB683KY
	C1617	6800p 50V Ceramic	VCKYCY1HB682KY
	C1618	0.1 25V Ceramic	VCKYCY1EF104Z
	C1619	100 6.3V Electrolytic	VCEAPF0JW107M

Mark	No.	Description	Part No.
	C1621	0.1 25V Ceramic	VCKYCY1EF104Z
	C1622	0.1 16V Ceramic	VCKYCY1CB104K
	C1623	27p 50V Ceramic	VCCCCY1HH270J
	C1624	18p 50V Ceramic	VCCCCY1HH180J
	C1625	560p 50V Ceramic	VCCCCY1HH561JY
	C1626	0.1 25V Ceramic	VCKYCY1EF104Z
	C1627	6800p 50V Ceramic	VCKYCY1HB682KY
	C1628	0.068 16V Ceramic	VCKYCY1CB683KY
	C1629	0.1 25V Ceramic	VCKYCY1EF104Z
	C1630	100 6.3V Electrolytic	VCEAPF0JW107M
	C1640	150p 50V Ceramic	VCCCCY1HH151J
	C1641	150p 50V Ceramic	VCCCCY1HH151J
	C1642	150p 50V Ceramic	VCCCCY1HH151J
	C1643	150p 50V Ceramic	VCCCCY1HH151J
	C1644	150p 50V Ceramic	VCCCCY1HH151J
	C1645	150p 50V Ceramic	VCCCCY1HH151J
	C2501	0.1 25V Ceramic	VCKYCY1EF104Z
	C2502	100 6.3V Electrolytic	VCEAPF0JW107M
	C2503	0.1 25V Ceramic	VCKYCY1EF104Z
	C2512	3300p 50V Ceramic	VCKYCY1HB332K
	C2513	3300p 50V Ceramic	VCKYCY1HB332K
	C2514	3300p 50V Ceramic	VCKYCY1HB332K
	C2515	3300p 50V Ceramic	VCKYCY1HB332K
	C2516	10 16V Electrolytic	VCEAPF1CW106M
	C2517	10 16V Electrolytic	VCEAPF1CW106M
	C2518	0.1 25V Ceramic	VCKYCY1EF104Z
	C2519	100 16V Electrolytic	VCEAPF1CW107M
	C2520	100 16V Electrolytic	VCEAPF1CW107M
	C2521	3.3 50V Electrolytic	VCEAPF1HW335M
	C2522	0.1 25V Ceramic	VCKYCY1EF104Z
	C2523	1.0 16V Ceramic	VCKYTV1CB105K
	C2524	1.0 16V Ceramic	VCKYTV1CB105K
	C2525	1.0 16V Ceramic	VCKYTV1CB105K
	C2526	1.0 16V Ceramic	VCKYTV1CB105K
	C2527	0.1 25V Ceramic	VCKYCY1EF104Z
	C2528	10 16V Electrolytic	VCEAPF1CW106M
	C2529	1.0 16V Ceramic	VCKYTV1CB105K
	C2530	100 6.3V Electrolytic	VCEAPF0JW107M
	C2531	56p 50V Ceramic	VCCCCY1HH560J
	C2532	0.01 50V Ceramic	VCKYCY1HB103K
	C2533	56p 50V Ceramic	VCCCCY1HH560J
	C2534	5.0p 50V Ceramic	VCCCCY1HH5R0C
	C2535	5.0p 50V Ceramic	VCCCCY1HH5R0C
	C2536	470 6.3V Electrolytic	VCEASH0JN477MY
	C2537	1.0 16V Ceramic	VCKYTV1CB105K
	C2538	1.0 16V Ceramic	VCKYTV1CB105K
	C2539	1.0 16V Ceramic	VCKYTV1CB105K
	C2543	1.0 16V Ceramic	VCKYTV1CB105K
	C2544	1.0 16V Ceramic	VCKYTV1CB105K
	C2545	1.0 16V Ceramic	VCKYTV1CB105K
	C2546	1.0 16V Ceramic	VCKYTV1CB105K
	C2547	0.1 25V Ceramic	VCKYCY1EF104Z
	C2548	0.1 25V Ceramic	VCKYCY1EF104Z
	C2553	0.01 50V Ceramic	VCKYCY1HB103K
	C2554	0.01 50V Ceramic	VCKYCY1HB103K

RESISTOR

	R1104	68 1/16W Metal Oxide	VRS-CY1JF680JY
	R1105	68 1/16W Metal Oxide	VRS-CY1JF680JY
	R1107	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1110	68k 1/16W Metal Oxide	VRS-CY1JF683J

Mark No.	Description	Part No.
R1112	100 1/16W Metal Oxide	VRS-CY1JF101J
R1113	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1114	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R1115	100 1/16W Metal Oxide	VRS-CY1JF101J
R1116	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R1117	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1118	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1119	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1120	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1122	470 1/16W Metal Oxide	VRS-CY1JF471J
R1123	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1124	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1125	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1126	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1127	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1128	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1129	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1130	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1131	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1135	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1136	270k 1/16W Metal Oxide	VRS-CY1JF274JY
R1137	75 1/16W Metal Oxide	VRS-TV1JD750JY
R1138	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1139	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1140	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1141	270k 1/16W Metal Oxide	VRS-CY1JF274JY
R1142	75 1/16W Metal Oxide	VRS-TV1JD750JY
R1143	10k 1/16W Metal Oxide	VRS-CY1JF103J
R1144	270k 1/16W Metal Oxide	VRS-CY1JF274JY
R1145	75 1/16W Metal Oxide	VRS-TV1JD750JY
R1146	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1147	68 1/2W Metal Oxide	VRS-TX2HF680J
R1148	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1149	68 1/2W Metal Oxide	VRS-TX2HF680J
R1150	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1151	100 1/16W Metal Oxide	VRS-CY1JF101J
R1152	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1153	100 1/16W Metal Oxide	VRS-CY1JF101J
R1154	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1155	100 1/16W Metal Oxide	VRS-CY1JF101J
R1156	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1157	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1158	220 1/16W Metal Oxide	VRS-CY1JF221J
R1159	220 1/16W Metal Oxide	VRS-CY1JF221J
R1160	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1161	220 1/16W Metal Oxide	VRS-CY1JF221J
R1162	220 1/16W Metal Oxide	VRS-CY1JF221J
R1163	100 1/16W Metal Oxide	VRS-CY1JF101J
R1164	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1165	68 1/2W Metal Oxide	VRS-TX2HF680J
R1166	100k 1/16W Metal Oxide	VRS-CY1JF104J
R1167	220 1/16W Metal Oxide	VRS-CY1JF221J
R1168	270 1/16W Metal Oxide	VRS-CY1JF271J
R1169	220k 1/16W Metal Oxide	VRS-CY1JF224J
R1170	220 1/16W Metal Oxide	VRS-CY1JF221J
R1171	270 1/16W Metal Oxide	VRS-CY1JF271J
R1172	220k 1/16W Metal Oxide	VRS-CY1JF224J
R1173	560k 1/16W Metal Oxide	VRS-CY1JF564J
R1174	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1175	560k 1/16W Metal Oxide	VRS-CY1JF564J

Mark No.	Description	Part No.
R1176	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1177	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1178	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1179	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1180	100 1/16W Metal Oxide	VRS-CY1JF101J
R1181	100 1/16W Metal Oxide	VRS-CY1JF101J
R1182	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1183	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1184	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1185	100 1/16W Metal Oxide	VRS-CY1JF101J
R1186	22k 1/16W Metal Oxide	VRS-CY1JF223J
R1187	560 1/16W Metal Oxide	VRS-CY1JF561J
R1188	560 1/16W Metal Oxide	VRS-CY1JF561J
R1189	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1190	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1191	100 1/16W Metal Oxide	VRS-CY1JF101J
R1192	75 1/8W Metal Oxide	VRS-TQ2BD750J
R1196	68 1/16W Metal Oxide	VRS-CY1JF680JY
R1197	68 1/16W Metal Oxide	VRS-CY1JF680JY
R1199	0 1/16W Metal Oxide	VRS-CY1JF000J
R1202	68k 1/16W Metal Oxide	VRS-CY1JF683J
R1204	100 1/16W Metal Oxide	VRS-CY1JF101J
R1205	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1206	560 1/8W Metal Oxide	VRS-TQ2BD561J
R1207	75 1/4W Metal Oxide	VRS-TW2ED750J
R1208	75 1/4W Metal Oxide	VRS-TW2ED750J
R1209	75 1/4W Metal Oxide	VRS-TW2ED750J
R1210	100 1/16W Metal Oxide	VRS-CY1JF101J
R1211	100 1/16W Metal Oxide	VRS-CY1JF101J
R1212	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
R1213	100 1/16W Metal Oxide	VRS-CY1JF101J
R1214	1.2k 1/16W Metal Oxide	VRS-CY1JF122J
R1215	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1216	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R1217	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1218	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R1220	470 1/16W Metal Oxide	VRS-CY1JF471J
R1301	100 1/16W Metal Oxide	VRS-CY1JF101J
R1302	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1303	100 1/16W Metal Oxide	VRS-CY1JF101J
R1304	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1305	100 1/16W Metal Oxide	VRS-CY1JF101J
R1306	100 1/16W Metal Oxide	VRS-CY1JF101J
R1307	100 1/16W Metal Oxide	VRS-CY1JF101J
R1308	100 1/16W Metal Oxide	VRS-CY1JF101J
R1309	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1310	100 1/16W Metal Oxide	VRS-CY1JF101J
R1311	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1312	100 1/16W Metal Oxide	VRS-CY1JF101J
R1313	100 1/16W Metal Oxide	VRS-CY1JF101J
R1314	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1315	100 1/16W Metal Oxide	VRS-CY1JF101J
R1316	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1317	100 1/16W Metal Oxide	VRS-CY1JF101J
R1318	100 1/16W Metal Oxide	VRS-CY1JF101J
R1319	100 1/16W Metal Oxide	VRS-CY1JF101J
R1320	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1321	100 1/16W Metal Oxide	VRS-CY1JF101J
R1322	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
R1323	100 1/16W Metal Oxide	VRS-CY1JF101J

Mark	No.	Description	Part No.
	R1324	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1325	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1326	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1327	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1328	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1329	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1330	220 1/4W Metal Oxide	VRS-TW2ED221J
	R1331	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1332	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1334	560 1/16W Metal Oxide	VRS-CY1JF561J
	R1335	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1336	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1337	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1338	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1339	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1340	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1341	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1342	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1343	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1344	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1345	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1348	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1349	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1350	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1354	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1405	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1406	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1407	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1408	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1409	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1411	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1412	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1413	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1418	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R1421	100 1/16W Metal Oxide	VRS-CA1JF101J
	R1422	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1423	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1424	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1425	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1429	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1430	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1431	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1432	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1433	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1437	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1438	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1439	22 1/16W Metal Oxide	VRS-CY1JF220J
	R1443	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1444	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1445	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1446	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1457	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1458	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1459	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1460	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1461	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1462	10 1/16W Metal Oxide	VRS-CY1JF100J
	R1463	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1581	33 1W Metal Oxide(PDP-R03T)	VRS-CR3AD330J
	R1582	10k 1/16W Metal Oxide(PDP-R03T)	VRS-CY1JF103J
	R1583	560 1/16W Metal Oxide(PDP-R03T)	VRS-CY1JF561J
	R1584	1.0k 1/16W Metal Oxide(PDP-R03T)	VRS-CY1JF102J
	R1601	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1602	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1603	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1604	820k 1/16W Metal Oxide	VRS-CY1JF824JY
	R1605	Resistor	RR-SZ0080CEZZY
	R1606	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1607	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1608	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1609	10k 1/16W Metal Oxide	VRS-CY1JF103F
	R1610	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1611	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1612	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1613	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1614	120 1/16W Metal Oxide	VRS-CY1JF121JY
	R1615	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1616	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1617	10k 1/16W Metal Oxide	VRS-CY1JF103F
	R1618	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1619	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1620	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1623	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R1624	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R1625	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1626	820k 1/16W Metal Oxide	VRS-CY1JF824JY
	R1627	Resistor	RR-SZ0080CEZZY
	R1629	470 1/16W Metal Oxide	VRS-CY1JF471J
	R1630	6.8k 1/16W Metal Oxide	VRS-CY1JF682J
	R1631	10k 1/16W Metal Oxide	VRS-CY1JF103F
	R1632	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1633	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1634	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1635	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1636	0 1/16W Metal Oxide	VRS-CY1JF000J
	R1637	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R1638	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1639	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1640	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R1641	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1642	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1643	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R1644	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1645	100 1/16W Metal Oxide	VRS-CY1JF101J
	R1650	330 1/16W Metal Oxide	VRS-CY1JF331J
	R1651	330 1/16W Metal Oxide	VRS-CY1JF331J
	R1652	330 1/16W Metal Oxide	VRS-CY1JF331J
	R2501	100 1/16W Metal Oxide	VRS-CA1JF101J
	R2502	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R2503	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R2505	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2510	3.3k 1/16W Metal Oxide	VRS-CY1JF332J
	R2511	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R2513	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2514	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2515	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2516	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2517	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2518	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2519	1.0k 1/16W Metal Oxide	VRS-CY1JF102J

Mark	No.	Description	Part No.
	R2520	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2521	100 1/16W Metal Oxide	VRS-CA1JF101J
	R2522	100 1/16W Metal Oxide	VRS-CA1JF101J
	R2523	1.0M 1/16W Metal Oxide	VRS-CY1JF105J
	R2524	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
	R2525	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R2526	5.6k 1/16W Metal Oxide	VRS-CY1JF562J
	R2527	0 1/16W Metal Oxide	VRS-CY1JF000J
	R2528	100 1/16W Metal Oxide	VRS-CA1JF101J
	R2531	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2534	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2535	22 1/16W Metal Oxide	VRS-CY1JF220J
	R2537	22 1/16W Metal Oxide	VRS-CY1JF220J
	R2538	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2539	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2540	100 1/16W Metal Oxide	VRS-CY1JF101J
	R2542	0 1/16W Metal Oxide	VRS-CY1JF000J
	R2555	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
	R2556	1.0k 1/16W Metal Oxide	VRS-CY1JF102J

MISCELLANEOUS PARTS

	FB1101	Ferrite Bead	RBLN-0065CEZZY
	FB1102	Ferrite Bead	RBLN-0065CEZZY
	FB1103	Ferrite Bead	RBLN-0062TAZZ
	FB1104	Ferrite Bead	RBLN-0062TAZZ
	FB1105	Ferrite Bead	RBLN-0062TAZZ
	FB1106	Ferrite Bead	RBLN-0062TAZZ
	FB1107	Ferrite Bead	RBLN-0062TAZZ
	FB1108	Ferrite Bead	RBLN-0062TAZZ
	FB1109	Ferrite Bead	RBLN-0062TAZZ
	FB1110	Ferrite Bead	RBLN-0062TAZZ
	FB1401	Ferrite Bead	RBLN-0061TAZZ
	FB1402	Ferrite Bead	RBLN-0061TAZZ
	FB1602	Ferrite Bead	RBLN-0064TAZZY
	FB2501	Ferrite Bead	RBLN-0051TAZZ
	FB2502	Ferrite Bead	RBLN-0060TAZZ
	FB2503	Ferrite Bead	RBLN-0051TAZZ
	FB2504	Ferrite Bead	RBLN-0051TAZZ
	FB2505	Ferrite Bead	RBLN-0051TAZZ
	FB2506	Ferrite Bead	RBLN-0051TAZZ
	FB2507	Ferrite Bead	RBLN-0051TAZZ
	J1103	Video 1/2,Compo 1IN	QTANJ0974CEZZ
	J1104	Video 3,Compo 3IN,Monitor	QTANJ0974CEZZ
	P1301	Plug 18-Pin	QPLGN0428FJZZ
	P1402	Socket 30-Pin	QSOCN0490FJZZ
	P2501	Plug 12-Pin	QPLGN0062CEZZY
	P2502	Plug 4-Pin	QPLGN0478GEZZ
	P2503	Plug 5-Pin	QPLGN0578GEZZ
	SC1101	Socket DINx2	QSOCD0834CEZZ
	SC1102	Socket DINx2	QSOCD0834CEZZ
	SC1103	Socket 15Pin D-sub	QSOCN1594CEZZ
	SC1401	Socket 30-Pin	QSOCN0550FJZZY
		Connecting Cord	QCNW-6073CEZZ
		Connecting Cord	QCNW-6079CEZZ

D LED UNIT

TRANSISTOR

	Q3001	2SC3928AR	VS2SC3928AR-1
	Q3002	2SC3928AR	VS2SC3928AR-1
	Q3003	DTC144EE	VSDTC144EE/-1
	Q3004	DTC144EE	VSDTC144EE/-1
	Q3005	DTC144EE	VSDTC144EE/-1

DIODE

	D3001	Photodiode	RH-PX0421CEZZ

RESISTOR

	R3001	470 1/16W Metal Oxide	VRS-CY1JF471J
	R3002	22k 1/16W Metal Oxide	VRS-CY1JF223J
	R3003	100k 1/16W Metal Oxide	VRS-CY1JF104J
	R3004	1.8k 1/16W Metal Oxide	VRS-CY1JF182J
	R3005	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3006	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3007	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3008	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3010	10k 1/16W Metal Oxide	VRS-CY1JF103J
	R3011	0 1/16W Metal Oxide	VRS-CY1JF000J
	R3012	0 1/16W Metal Oxide	VRS-CY1JF000J

MISCELLANEOUS PARTS

	P3001	Plug 5-Pin	QPLGN0564TAZZ
		Connecting Cord	QCNW-6076CEZZ

E SR UNIT

TRANSISTOR

	Q6001	2SC3928AR	VS2SC3928AR-1
	Q6002	2SA1530AR	VS2SA1530AR-1
	Q6003	2SA1530AR	VS2SA1530AR-1
	Q6004	2SC3928AR	VS2SC3928AR-1
	Q6005	DTC314TK	VSDTC314TK/-1
	Q6006	DTC314TK	VSDTC314TK/-1
	Q6007	2SA1530AR	VS2SA1530AR-1
	Q6008	2SC3928AR	VS2SC3928AR-1

DIODE

	D6000	Diode	VHDMA157A//-1
	D6001	Diode	VHDMA157A//-1
	D6002	Zener Diode	RH-EX1264CEZZ
	D6003	Zener Diode	RH-EX1264CEZZ
	D6004	Diode	VHDMA157A//-1
	D6006	Diode	VHDMA157A//-1
	D6007	Diode	VHDMA157A//-1
	D6008	Diode	VHD1SS355//-1
	D6009	Diode	VHD1SS355//-1
	D6010	Diode	VHD1SS355//-1
	D6011	Zener Diode	RH-EX1264CEZZ
	D6012	Zener Diode	RH-EX1264CEZZ
	D6013	Diode	VHDMA157A//-1
	D6014	Diode	VHDMA157A//-1
	D6015	Zener Diode	RH-EX1232CEZZY

CAPACITOR

	C6000	10 16V Electrolytic	VCEAPF1CW106M
	C6001	10 16V Electrolytic	VCEAPF1CW106M
	C6002	0.1 25V Ceramic	VCKYCY1EF104Z
	C6003	1.0 10V Ceramic	VCKYCY1AF105Z
	C6004	1.0 10V Ceramic	VCKYCY1AF105Z

RESISTOR

	R6000	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6001	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6002	56 1/16W Metal Oxide	VRS-CY1JF560J
	R6003	47k 1/16W Metal Oxide	VRS-CY1JF473J
	R6004	56 1/16W Metal Oxide	VRS-CY1JF560J

Mark No.	Description	Part No.
R6005	56 1/16W Metal Oxide	VRS-CY1JF560J
R6006	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R6007	56 1/16W Metal Oxide	VRS-CY1JF560J
R6011	470 1/16W Metal Oxide	VRS-CY1JF471J
R6012	470 1/16W Metal Oxide	VRS-CY1JF471J
R6013	0 1/8W Metal Oxide	VRS-TQ2BD000J
R6014	0 1/8W Metal Oxide	VRS-TQ2BD000J
R6015	220 1/16W Metal Oxide	VRS-CY1JF221J
R6016	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R6017	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6018	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6019	2.2k 1/16W Metal Oxide	VRS-CY1JF222J
R6020	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R6021	4.7k 1/16W Metal Oxide	VRS-CY1JF472J
R6022	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6023	220k 1/16W Metal Oxide	VRS-CY1JF224J
R6024	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6025	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6030	100k 1/16W Metal Oxide	VRS-CY1JF104J
R6031	100k 1/16W Metal Oxide	VRS-CY1JF104J
R6032	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R6033	1.0k 1/16W Metal Oxide	VRS-CY1JF102J
R6036	22k 1/16W Metal Oxide	VRS-CY1JF223J
R6037	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6038	10k 1/16W Metal Oxide	VRS-CY1JF103J
R6039	680 1/16W Metal Oxide	VRS-CY1JF681J
R6040	1.0M 1/16W Metal Oxide	VRS-CY1JF105J

MISCELLANEOUS PARTS

FB6000	Ferrite Bead	RBLN-0060TAZZ
FB6001	Ferrite Bead	RBLN-0060TAZZ
FB6002	Ferrite Bead	RBLN-0060TAZZ
J6001	Jack	QJAKJ0110CEZZ
J6002	Jack	QJAKJ0110CEZZ
P6000	Plug 14-Pin	QPLGN1474TAZZY
P6001	Plug 4-Pin	QPLGN0480GEZZ
SC6000	Socket 15-Pin D-Sub	QSOCZ2015CEZZ
	Connecting Cord	QCNW-A280WJZZ

F PC I/F UNIT

IC

IC2	PST600IM	9DK001-15061
IC3	AT24C128N-10SC-1.8	9DK001-11020
IC4	CXA3506R	9DK001-15079
IC7	PQ05TZ11	9DK001-15038
IC8	PQ20VZ11	9DK001-15071
IC19	PST623XW	9DK001-15060
IC27	LH28F320S3NS-L11	RH-IX3430CEZZQ
IC28	MSM51V181865F-60TS-K	9DK001-11027
IC53	74LVX86MTC	9DK001-12079
IC310	TLC5733A	9DK001-15082
IC316	TL431CPS	9DK001-15053
IC319	HY57V653220BTC-7	9DK001-11024
IC320	HY57V653220BTC-7	9DK001-11024
IC321	HY57V653220BTC-7	9DK001-11024
IC322	HY57V653220BTC-7	9DK001-11024
IC327	NJM4560M	9DK001-15084
IC328	TLC2933IPW	9DK001-15054
IC400	74LVX86MTC	9DK001-12079
IC402	74LVX125MTC	9DK001-12105
IC404	74LVX125MTC	9DK001-12105
IC405	uPD4721G	9DK001-15107
IC408	HD74HCT244T	9DK001-12085
	or 74VHCT244AMTC	9DK001-12086
IC410	HD74HCT244T	9DK001-12085
	or 74VHCT244AMTC	9DK001-12086
IC411	74LCX157MTC	9DK001-12103
IC412	PQ1R33	9DK001-15093
IC415	BA09FP	9DK001-15109
IC419	TC7WH123FK	9DK001-12102
IC420	TC7WH126FK	9DK001-12096
IC422	HD74HCT125T	9DK001-12070
IC423	TC7WH123FK	9DK001-12102
IC424	NC7S08P5	9DK001-12106

TRANSISTOR

Q12	IMB3A	9DK001-20025
Q13	2SC2412KQ	9DK001-20011
Q15	2SA1037AKQ	9DK001-20012
Q102	NDC7002N	9DK001-20036
Q103	2SC2412KQ	9DK001-20011
Q104	2SC2412KQ	9DK001-20011
Q105	2SC2412KQ	9DK001-20011
Q107	2SC2412KQ	9DK001-20011
Q108	2SC2412KQ	9DK001-20011
Q109	2SC2412KQ	9DK001-20011
Q110	2SC2412KQ	9DK001-20011
Q111	2SA1037AKQ	9DK001-20012
Q112	2SA1037AKQ	9DK001-20012
Q113	2SA1037AKQ	9DK001-20012
Q114	2SC2412KQ	9DK001-20011
Q117	2SC2412KQ	9DK001-20011
Q118	2SC2412KQ	9DK001-20011
Q119	2SC2412KQ	9DK001-20011
Q120	NDC7002N	9DK001-20036

DIODE

D9	Diode 1SS187	9DK001-30018
D20	Diode 1SS187	9DK001-30018
D50	Diode 1SS193	9DK001-30001
D51	Diode 1SS193	9DK001-30001
D52	Diode 1SS193	9DK001-30001
D53	Diode 1SS193	9DK001-30001
D54	Diode MA3120WA	9DK001-30022
D55	Diode MA3120WA	9DK001-30022
D56	Diode MA3120WA	9DK001-30022
D57	Diode MA3120WA	9DK001-30022
D70	Diode 1SS355	9DK001-30020
D71	Diode 1SS355	9DK001-30020
D72	Diode 1SS355	9DK001-30020
D73	Diode 1SS400	9DK001-30021
D75	Diode 1SS187	9DK001-30018
D76	Diode 1SS187	9DK001-30018
D77	Diode 1SS400	9DK001-30021

PACKAGED CIRCUIT

X1	Crystal, 6MHz	9DK001-80012
X3	Crystal, FXO-31FL (1.8432MHz)	9DK001-80011
X4	Crystal, FXO-31FL (25MHz)	9DK001-80018

Mark No.	Description	Part No.
X5	Crystal, DS07515V (79.794MHz)	9DK001-80029
X6	Crystal, 25.175MHz	9DK001-80031

FILTER AND COIL

FL5	Filter BMK351	9DK001-81020
FL6	Filter BMK351	9DK001-81020
FL10	Filter BMK351	9DK001-81020
FL20	Filter BMK351	9DK001-81020
FL21	Filter BMK351	9DK001-81020
FL22	Filter BMK351	9DK001-81020
FL23	Filter BMK351	9DK001-81020
FL29	Filter BMK351	9DK001-81020
FL30	Filter BMK351	9DK001-81020
FL31	Filter BMK351	9DK001-81020
FL32	Filter BMK351	9DK001-81020
FL94	Filter BMK351	9DK001-81020
FL95	Filter BMK351	9DK001-81020
FL96	Filter BMK351	9DK001-81020
FL97	Filter BMK351	9DK001-81020
FL200	Filter BMK351	9DK001-81020
FL201	Filter BMK351	9DK001-81020
FL204	Filter BMK351	9DK001-81020
L1	Inductor NLC322522T-3R3M	9DK001-81052
L2	Inductor NLC322522T-3R3M	9DK001-81052
L3	Inductor NLC322522T-3R3M	9DK001-81052
L4	Inductor NLC322522T-3R3M	9DK001-81052
L22	Inductor NLC322522T-3R3M	9DK001-81052
L100	Inductor NLC322522T-3R3M	9DK001-81052
L101	Inductor NLC322522T-3R3M	9DK001-81052

CAPACITOR

C1	0.1 25V Ceramic	9DK001-42094
C2	0.1 25V Ceramic	9DK001-42094
C6	0.01 50V Ceramic	9DK001-42096
C7	0.01 50V Ceramic	9DK001-42096
C8	0.01 50V Ceramic	9DK001-42096
C9	0.01 50V Ceramic	9DK001-42096
C10	10 10V Ceramic	9DK001-42131
	or 10 25V Ceramic	9DK001-42118
C12	15p 50V Ceramic	9DK001-42103
C13	15p 50V Ceramic	9DK001-42103
C14	0.01 50V Ceramic	9DK001-42096
C15	10 10V Ceramic	9DK001-42131
	or 10 25V Ceramic	9DK001-42118
C17	0.01 50V Ceramic	9DK001-42096
C18	0.01 50V Ceramic	9DK001-42096
C19	470p 50V Ceramic	9DK001-42104
C20	470p 50V Ceramic	9DK001-42104
C21	0.01 50V Ceramic	9DK001-42096
C22	0.01 50V Ceramic	9DK001-42096
C23	0.01 50V Ceramic	9DK001-42096
C24	10 16V EL	9DK001-40077
C25	0.01 50V Ceramic	9DK001-42096
C26	0.01 50V Ceramic	9DK001-42096
C27	0.01 50V Ceramic	9DK001-42096
C28	0.01 50V Ceramic	9DK001-42096
C29	0.01 50V Ceramic	9DK001-42096
C30	0.047 50V Ceramic	9DK001-42105
C31	0.1 25V Ceramic	9DK001-42094
C32	0.1 25V Ceramic	9DK001-42094
C33	0.1 25V Ceramic	9DK001-42094

Mark No.	Description	Part No.
C34	0.01 50V Ceramic	9DK001-42096
C35	0.01 50V Ceramic	9DK001-42096
C36	0.01 50V Ceramic	9DK001-42096
C37	0.01 50V Ceramic	9DK001-42096
C38	0.01 50V Ceramic	9DK001-42096
C42	0.01 50V Ceramic	9DK001-42096
C43	0.01 50V Ceramic	9DK001-42096
C51	0.01 50V Ceramic	9DK001-42096
C52	0.01 50V Ceramic	9DK001-42096
C53	0.01 50V Ceramic	9DK001-42096
C62	0.1 25V Ceramic	9DK001-42094
C70	0.1 25V Ceramic	9DK001-42094
C78	0.1 25V Ceramic	9DK001-42094
C79	47 6.3V EL	9DK001-40089
C80	47 16V EL	9DK001-40079
C81	0.01 50V Ceramic	9DK001-42096
C82	0.01 50V Ceramic	9DK001-42096
C83	0.01 50V Ceramic	9DK001-42096
C84	47 6.3V EL	9DK001-40089
C96	47 6.3V EL	9DK001-40089
C110	0.1 25V Ceramic	9DK001-42094
C111	0.1 25V Ceramic	9DK001-42094
C112	0.1 25V Ceramic	9DK001-42094
C113	1 10V Ceramic	9DK001-42111
C114	0.1 25V Ceramic	9DK001-42094
C115	0.1 25V Ceramic	9DK001-42094
C116	0.1 25V Ceramic	9DK001-42094
C117	0.1 25V Ceramic	9DK001-42094
C118	0.1 25V Ceramic	9DK001-42094
C119	0.1 25V Ceramic	9DK001-42094
C120	0.1 25V Ceramic	9DK001-42094
C121	0.1 25V Ceramic	9DK001-42094
C122	1 10V Ceramic	9DK001-42111
C123	0.1 25V Ceramic	9DK001-42094
C124	0.1 25V Ceramic	9DK001-42094
C125	0.1 25V Ceramic	9DK001-42094
C126	0.1 25V Ceramic	9DK001-42094
C127	100p 50V Ceramic	9DK001-42099
C128	0.33 16V Film	9DK001-42149
C130	100p 50V Ceramic	9DK001-42099
C131	0.1 25V Ceramic	9DK001-42094
C132	0.1 25V Ceramic	9DK001-42094
C133	0.1 25V Ceramic	9DK001-42094
C134	0.1 25V Ceramic	9DK001-42094
C135	0.1 25V Ceramic	9DK001-42094
C136	0.1 25V Ceramic	9DK001-42094
C137	0.1 25V Ceramic	9DK001-42094
C138	0.1 25V Ceramic	9DK001-42094
C143	0.01 50V Ceramic	9DK001-42096
C144	47 6.3V EL	9DK001-40089
C145	0.01 50V Ceramic	9DK001-42096
C146	47 6.3V EL	9DK001-40089
C147	0.01 50V Ceramic	9DK001-42096
C148	47 6.3V EL	9DK001-40089
C149	0.01 50V Ceramic	9DK001-42096
C350	0.01 50V Ceramic	9DK001-42096
C361	47 6.3V EL	9DK001-40089
C366	100 6.3V EL	9DK001-40080
C367	100 4V EL	9DK001-40091
C531	47 6.3V EL	9DK001-40089

Mark No.	Description	Part No.	Mark No.	Description	Part No.
C532	0.01 50V Ceramic	9DK001-42096	C716	0.01 50V Ceramic	9DK001-42096
C537	10 16V EL	9DK001-40077	C717	0.01 50V Ceramic	9DK001-42096
C538	0.1 25V Ceramic	9DK001-42094	C741	47 6.3V EL	9DK001-40089
C542	10 16V EL	9DK001-40077	C757	4.7 10V Ceramic	9DK001-42113
C543	0.1 25V Ceramic	9DK001-42094	C759	0.01 50V Ceramic	9DK001-42096
C544	2200p 50V Ceramic	9DK001-42102	C762	0.1 25V Ceramic	9DK001-42094
C545	2200p 50V Ceramic	9DK001-42102	C763	0.1 25V Ceramic	9DK001-42094
C546	2200p 50V Ceramic	9DK001-42102	C764	0.1 25V Ceramic	9DK001-42094
C550	10 16V EL	9DK001-40077	C766	0.1 25V Ceramic	9DK001-42094
C551	0.1 25V Ceramic	9DK001-42094	C767	6.8 10V OS	9DK001-40104
C552	0.1 25V Ceramic	9DK001-42094	C768	1 10V Ceramic	9DK001-42111
C553	0.1 25V Ceramic	9DK001-42094	C769	4.7 10V Ceramic	9DK001-42113
C554	10 16V EL	9DK001-40077	C776	6.8 10V OS	9DK001-40104
C555	0.1 25V Ceramic	9DK001-42094	C777	0.1 25V Ceramic	9DK001-42094
C556	0.1 25V Ceramic	9DK001-42094	C800	0.1 25V Ceramic	9DK001-42094
C557	0.1 25V Ceramic	9DK001-42094	C802	0.1 25V Ceramic	9DK001-42094
C558	0.1 25V Ceramic	9DK001-42094	C803	0.1 25V Ceramic	9DK001-42094
C559	10 10V Ceramic	9DK001-42131	C804	2.2 50V EL	9DK001-40103
	or 10 25V Ceramic	9DK001-42118	C805	2.2 50V EL	9DK001-40103
C562	0.1 25V Ceramic	9DK001-42094	C806	2.2 50V EL	9DK001-40103
C563	0.1 25V Ceramic	9DK001-42094	C807	2.2 50V EL	9DK001-40103
C564	33 6.3V OS	9DK001-40106	C808	2.2 50V EL	9DK001-40103
C565	0.1 25V Ceramic	9DK001-42094	C813	0.1 25V Ceramic	9DK001-42094
C566	330p 50V Ceramic	9DK001-42123	C814	0.1 25V Ceramic	9DK001-42094
C573	47 6.3V EL	9DK001-40089	C815	0.1 25V Ceramic	9DK001-42094
C574	47 6.3V EL	9DK001-40089	C816	0.1 25V Ceramic	9DK001-42094
C575	0.01 50V Ceramic	9DK001-42096	C817	0.1 25V Ceramic	9DK001-42094
C576	0.01 50V Ceramic	9DK001-42096	C818	0.1 25V Ceramic	9DK001-42094
C577	0.01 50V Ceramic	9DK001-42096	C819	0.1 25V Ceramic	9DK001-42094
C578	0.01 50V Ceramic	9DK001-42096	C820	0.1 25V Ceramic	9DK001-42094
C579	0.01 50V Ceramic	9DK001-42096	C821	0.1 25V Ceramic	9DK001-42094
C580	0.01 50V Ceramic	9DK001-42096	C822	0.1 25V Ceramic	9DK001-42094
C581	0.01 50V Ceramic	9DK001-42096	C823	0.1 25V Ceramic	9DK001-42094
C582	0.01 50V Ceramic	9DK001-42096	C824	0.1 25V Ceramic	9DK001-42094
C583	0.01 50V Ceramic	9DK001-42096	C825	0.1 25V Ceramic	9DK001-42094
C584	0.01 50V Ceramic	9DK001-42096	C826	0.1 25V Ceramic	9DK001-42094
C585	0.01 50V Ceramic	9DK001-42096	C827	0.1 25V Ceramic	9DK001-42094
C586	0.01 50V Ceramic	9DK001-42096	C828	0.1 25V Ceramic	9DK001-42094
C587	47 6.3V EL	9DK001-40089	C829	0.1 25V Ceramic	9DK001-42094
C588	47 6.3V EL	9DK001-40089	C830	0.1 25V Ceramic	9DK001-42094
C589	0.01 50V Ceramic	9DK001-42096	C831	0.1 25V Ceramic	9DK001-42094
C590	0.01 50V Ceramic	9DK001-42096	C832	0.1 25V Ceramic	9DK001-42094
C591	0.01 50V Ceramic	9DK001-42096	C833	0.1 25V Ceramic	9DK001-42094
C592	0.01 50V Ceramic	9DK001-42096	C834	0.1 25V Ceramic	9DK001-42094
C593	0.01 50V Ceramic	9DK001-42096	C835	0.1 25V Ceramic	9DK001-42094
C594	0.01 50V Ceramic	9DK001-42096	C836	0.1 25V Ceramic	9DK001-42094
C595	0.01 50V Ceramic	9DK001-42096	C837	0.1 25V Ceramic	9DK001-42094
C596	0.01 50V Ceramic	9DK001-42096	C838	0.1 25V Ceramic	9DK001-42094
C597	0.01 50V Ceramic	9DK001-42096	C839	0.1 25V Ceramic	9DK001-42094
C598	0.01 50V Ceramic	9DK001-42096	C840	0.1 25V Ceramic	9DK001-42094
C599	0.01 50V Ceramic	9DK001-42096	C841	0.1 25V Ceramic	9DK001-42094
C600	0.01 50V Ceramic	9DK001-42096	C842	0.1 25V Ceramic	9DK001-42094
C697	0.01 50V Ceramic	9DK001-42096	C843	0.1 25V Ceramic	9DK001-42094
C698	0.47 16V Ceramic	9DK001-42152	C844	0.1 25V Ceramic	9DK001-42094
C700	0.47 16V Ceramic	9DK001-42152	C845	0.1 25V Ceramic	9DK001-42094
C702	0.47 16V Ceramic	9DK001-42152	C846	0.1 25V Ceramic	9DK001-42094
C704	1 10V Ceramic	9DK001-42111	C847	100 6.3V EL	9DK001-40080
C705	0.1 16V Film	9DK001-42145	C848	0.1 25V Ceramic	9DK001-42094
C706	0.01 50V Ceramic	9DK001-42096	C849	100 6.3V EL	9DK001-40080
C715	0.01 50V Ceramic	9DK001-42096	C850	220 4V EL	9DK001-40092

Mark No.	Description	Part No.
C851	100 6.3V EL	9DK001-40080
C852	47 6.3V EL	9DK001-40089
C853	0.01 50V Ceramic	9DK001-42096
C854	47 16V EL	9DK001-40079
C855	82p 50V Ceramic	9DK001-42133
C856	0.1 25V Ceramic	9DK001-42094
C857	10 16V EL	9DK001-40077
C858	82p 50V Ceramic	9DK001-42133
C859	0.1 25V Ceramic	9DK001-42094
C860	10 16V EL	9DK001-40077
C863	82p 50V Ceramic	9DK001-42133
C864	82p 50V Ceramic	9DK001-42133
C865	82p 50V Ceramic	9DK001-42133
C867	10 16V EL	9DK001-40077
C868	0.1 25V Ceramic	9DK001-42094
C869	0.1 25V Ceramic	9DK001-42094
C870	82p 50V Ceramic	9DK001-42133
C872	0.1 25V Ceramic	9DK001-42094
C874	82p 50V Ceramic	9DK001-42133
C875	82p 50V Ceramic	9DK001-42133
C876	0.1 25V Ceramic	9DK001-42094
C878	0.1 25V Ceramic	9DK001-42094
C879	82p 50V Ceramic	9DK001-42133
C880	0.47 16V Ceramic	9DK001-42152
C881	0.1 25V Ceramic	9DK001-42094
C882	22 16V EL	9DK001-40078
C883	0.1 25V Ceramic	9DK001-42094
C884	0.1 25V Ceramic	9DK001-42094
C885	0.1 25V Ceramic	9DK001-42094
C886	0.47 16V Ceramic	9DK001-42152
C887	120p 50V Ceramic	9DK001-42151
C888	120p 50V Ceramic	9DK001-42151
C889	120p 50V Ceramic	9DK001-42151
C890	10 16V EL	9DK001-40077
C891	10 16V EL	9DK001-40077
C894	0.1 25V Ceramic	9DK001-42094
C895	0.1 25V Ceramic	9DK001-42094
C896	0.1 25V Ceramic	9DK001-42094
C897	0.1 25V Ceramic	9DK001-42094
C898	100p 50V Ceramic	9DK001-42099
C899	100p 50V Ceramic	9DK001-42099
C900	100p 50V Ceramic	9DK001-42099
C904	0.1 25V Ceramic	9DK001-42094
C905	0.1 25V Ceramic	9DK001-42094
C907	0.1 25V Ceramic	9DK001-42094
C908	0.01 50V Ceramic	9DK001-42096
C913	0.1 25V Ceramic	9DK001-42094
C916	0.1 25V Ceramic	9DK001-42094
C917	0.01 50V Ceramic	9DK001-42096
C918	0.01 50V Ceramic	9DK001-42096

RESISTOR

Mark No.	Description	Part No.
R10	10k 1/16W Resistor Array	9DK001-51030
R11	10k 1/16W Resistor Array	9DK001-51030
R16	1.69k 1/16W Chip1608	9DK001-50198
R17	33k 1/16W Chip1608	9DK001-50210
R18	2.15k 1/16W Chip1608	9DK001-50199
R19	10k 1/16W Resistor Array	9DK001-51030
R21	0 1/16W Chip1608	9DK001-50149
R22	10k 1/16W Chip1608	9DK001-50185
R27	27k 1/16W Chip1608	9DK001-50209
R29	10k 1/16W Resistor Array	9DK001-51030
R33	10k 1/16W Resistor Array	9DK001-51030
R34	10k 1/16W Resistor Array	9DK001-51030
R35	10k 1/16W Resistor Array	9DK001-51030
R36	10k 1/16W Resistor Array	9DK001-51030
R40	68 1/16W Chip1608	9DK001-50163
R43	10k 1/16W Resistor Array	9DK001-51030
R44	10k 1/16W Resistor Array	9DK001-51030
R50	10k 1/16W Resistor Array	9DK001-51030
R51	10k 1/16W Resistor Array	9DK001-51030
R57	10k 1/16W Resistor Array	9DK001-51030
R58	10k 1/16W Resistor Array	9DK001-51030
R62	10 1/16W Resistor Array	9DK001-51029
R65	10k 1/16W Resistor Array	9DK001-51030
R75	0 1/16W Chip1608	9DK001-50149
R80	270 1/10W Chip2125	9DK001-50103
R83	0 1/16W Chip1608	9DK001-50149
R88	270 1/10W Chip2125	9DK001-50103
R91	0 1/16W Chip1608	9DK001-50149
R96	270 1/10W Chip2125	9DK001-50103
R121	47 1/4W Chip3216	9DK001-50065
R122	47 1/4W Chip3216	9DK001-50065
R123	1.6k 1/16W Chip1608	9DK001-50256
R124	1.0k 1/16W Chip1608	9DK001-50237
R128	10 1/16W Chip1608	9DK001-50150
R132	3.3k 1/16W Chip1608	9DK001-50156
R133	3k 1/16W Chip1608	9DK001-50155
R138	0 1/16W Chip1608	9DK001-50149
R140	0 1/16W Chip1608	9DK001-50149
R289	4.7k 1/16W Chip1608	9DK001-50183
R340	10k 1/16W Chip1608	9DK001-50185
R650	10k 1/16W Chip1608	9DK001-50185
R651	6.8k 1/16W Resistor Array	9DK001-51037
R652	10k 1/16W Resistor Array	9DK001-51030
R654	150 1/16W Chip1608	9DK001-50204
R656	4.7k 1/16W Chip1608	9DK001-50183
R664	15k 1/16W Chip1608	9DK001-50259
R665	15k 1/16W Chip1608	9DK001-50259
R671	15k 1/16W Chip1608	9DK001-50259
R677	470 1/16W Chip1608	9DK001-50173
R678	1.2k 1/16W Chip1608	9DK001-50254
R680	3k 1/16W Chip1608	9DK001-50155
R681	3k 1/16W Chip1608	9DK001-50155
R682	1.2k 1/16W Chip1608	9DK001-50254
R687	470 1/16W Chip1608	9DK001-50173
R688	15 1/16W Chip1608	9DK001-50201
R689	470 1/16W Chip1608	9DK001-50173
R690	1.8k 1/16W Chip1608	9DK001-50205
R691	1.8k 1/16W Chip1608	9DK001-50205
R692	22 1/16W Chip1608	9DK001-50159
R693	22 1/16W Chip1608	9DK001-50159
R694	22 1/16W Chip1608	9DK001-50159
R695	22 1/16W Chip1608	9DK001-50159
R696	10k 1/16W Chip1608	9DK001-50185
R697	10k 1/16W Chip1608	9DK001-50185
R698	10k 1/16W Chip1608	9DK001-50185
R699	10k 1/16W Chip1608	9DK001-50185
R702	10k 1/16W Resistor Array	9DK001-51030
R708	10k 1/16W Resistor Array	9DK001-51030

Mark No.	Description	Part No.
R730	680 1/16W Chip1608	9DK001-50175
R731	620 1/16W Chip1608	9DK001-50271
R733	10k 1/16W Chip1608	9DK001-50185
R734	10k 1/16W Chip1608	9DK001-50185
R735	10k 1/16W Chip1608	9DK001-50185
R736	10k 1/16W Chip1608	9DK001-50185
R737	10k 1/16W Chip1608	9DK001-50185
R738	10k 1/16W Chip1608	9DK001-50185
R739	10k 1/16W Chip1608	9DK001-50185
R740	10k 1/16W Chip1608	9DK001-50185
R742	0 1/16W Chip1608	9DK001-50149
R743	1.8k 1/16W Chip1608	9DK001-50205
R745	0 1/16W Chip1608	9DK001-50149
R747	0 1/16W Chip1608	9DK001-50149
R749	0 1/16W Chip1608	9DK001-50149
R757	0 1/16W Chip1608	9DK001-50149
R758	0 1/16W Chip1608	9DK001-50149
R758	10k 1/16W Chip1608	9DK001-50185
R759	1k 1/16W Chip1608	9DK001-50177
R760	1k 1/16W Chip1608	9DK001-50177
R763	0 1/16W Chip1608	9DK001-50149
R764	0 1/16W Chip1608	9DK001-50149
R765	0 1/16W Chip1608	9DK001-50149
R867	510 1/16W Chip1608	9DK001-50217
R868	510 1/16W Chip1608	9DK001-50217
R869	510 1/16W Chip1608	9DK001-50217
R876	0 1/16W Chip1608	9DK001-50149
R877	10k 1/16W Chip1608	9DK001-50185
R879	0 1/16W Chip1608	9DK001-50149
R881	0 1/16W Chip1608	9DK001-50149
R883	0 1/16W Chip1608	9DK001-50149
R885	0 1/16W Chip1608	9DK001-50149
R887	0 1/16W Chip1608	9DK001-50149
R901	0 1/4W Chip3216	9DK001-50113
R911	10 1/10W Chip2125	9DK001-50121
R912	10 1/10W Chip2125	9DK001-50121
R920	100 1/16W Chip1608	9DK001-50165
R921	100 1/16W Chip1608	9DK001-50165
R922	10k 1/16W Chip1608	9DK001-50185
R924	4.7k 1/16W Chip1608	9DK001-50183
R925	4.7k 1/16W Chip1608	9DK001-50183
R926	0 1/16W Chip1608	9DK001-50149
R927	100 1/16W Chip1608	9DK001-50165
R928	100 1/16W Chip1608	9DK001-50165
R929	100 1/16W Chip1608	9DK001-50165
R930	100 1/16W Chip1608	9DK001-50165
R934	68 1/16W Resistor Array	9DK001-51040
R936	68 1/16W Resistor Array	9DK001-51040
R937	68 1/16W Resistor Array	9DK001-51040
R939	68 1/16W Resistor Array	9DK001-51040
R940	68 1/16W Resistor Array	9DK001-51040
R941	68 1/16W Resistor Array	9DK001-51040
R947	56 1/16W Resistor Array	9DK001-51039
R951	6.8k 1/16W Resistor Array	9DK001-51037
R959	68 1/16W Resistor Array	9DK001-51040
R960	68 1/16W Resistor Array	9DK001-51040
R961	68 1/16W Resistor Array	9DK001-51040
R962	68 1/16W Resistor Array	9DK001-51040
R963	68 1/16W Resistor Array	9DK001-51040
R964	68 1/16W Resistor Array	9DK001-51040

Mark No.	Description	Part No.
R965	68 1/16W Resistor Array	9DK001-51040
R966	68 1/16W Resistor Array	9DK001-51040
R967	68 1/16W Resistor Array	9DK001-51040
R968	68 1/16W Resistor Array	9DK001-51040
R969	68 1/16W Resistor Array	9DK001-51040
R970	68 1/16W Resistor Array	9DK001-51040
R971	33 1/16W Resistor Array	9DK001-51042
R972	33 1/16W Resistor Array	9DK001-51042
R973	33 1/16W Resistor Array	9DK001-51042
R974	33 1/16W Resistor Array	9DK001-51042
R975	33 1/16W Resistor Array	9DK001-51042
R976	33 1/16W Resistor Array	9DK001-51042
R977	10k 1/16W Chip1608	9DK001-50185
R978	68 1/16W Chip1608	9DK001-50163
R979	0 1/16W Chip1608	9DK001-50149
R980	0 1/16W Chip1608	9DK001-50149
R993	0 1/16W Chip1608	9DK001-50149
R998	0 1/16W Chip1608	9DK001-50149
R999	510 1/16W Chip1608	9DK001-50217
R1000	4.7k 1/16W Chip1608	9DK001-50183
R1001	4.7k 1/16W Chip1608	9DK001-50183
R1002	100 1/16W Chip1608	9DK001-50165
R1003	100 1/16W Chip1608	9DK001-50165
R1004	1k 1/16W Chip1608	9DK001-50177
R1005	1k 1/16W Chip1608	9DK001-50177
R1006	2.2k 1/16W Chip1608	9DK001-50179
R1007	1k 1/16W Chip1608	9DK001-50177
R1008	1k 1/16W Chip1608	9DK001-50177
R1009	2.2k 1/16W Chip1608	9DK001-50179
R1011	33k 1/16W Chip1608	9DK001-50210
R1012	1k 1/16W Chip1608	9DK001-50177
R1013	47 1/16W Chip1608	9DK001-50161
R1015	47 1/16W Chip1608	9DK001-50161
R1017	47 1/16W Chip1608	9DK001-50161
R1019	2.2k 1/16W Chip1608	9DK001-50179
R1022	3.3k 1/16W Chip1608	9DK001-50181
R1023	3.3k 1/16W Chip1608	9DK001-50181
R1024	3.3k 1/16W Chip1608	9DK001-50181
R1025	0 1/16W Chip1608	9DK001-50149
R1026	220 1/16W Chip1608	9DK001-50169
R1027	220 1/16W Chip1608	9DK001-50169
R1028	220 1/16W Chip1608	9DK001-50169
R1029	1M 1/16W Chip1608	9DK001-50190
R1030	1k 1/16W Chip1608	9DK001-50177
R1031	22k 1/16W Chip1608	9DK001-50186
R1032	100k 1/16W Chip1608	9DK001-50212
R1033	1k 1/16W Chip1608	9DK001-50177
R1034	1k 1/16W Chip1608	9DK001-50177
R1035	100k 1/16W Chip1608	9DK001-50212
R1036	1k 1/16W Chip1608	9DK001-50177
R1037	22k 1/16W Chip1608	9DK001-50186
R1038	100k 1/16W Chip1608	9DK001-50212
R1042	1k 1/16W Chip1608	9DK001-50177
R1043	1k 1/16W Chip1608	9DK001-50177
R1044	1k 1/16W Chip1608	9DK001-50177
R1045	560 1/16W Chip1608	9DK001-50174
R1048	47 1/16W Chip1608	9DK001-50161
R1049	47 1/16W Chip1608	9DK001-50161
R1050	47 1/16W Chip1608	9DK001-50161
R1051	4.7k 1/16W Chip1608	9DK001-50183

Mark No.	Description	Part No.
R1052	4.7k 1/16W Chip1608	9DK001-50183
R1053	4.7k 1/16W Chip1608	9DK001-50183
R1054	4.7k 1/16W Chip1608	9DK001-50183
R1055	4.7k 1/16W Chip1608	9DK001-50183
R1056	4.7k 1/16W Chip1608	9DK001-50183
R1058	4.7k 1/16W Chip1608	9DK001-50183
R1059	4.7k 1/16W Chip1608	9DK001-50183
R1060	4.7k 1/16W Chip1608	9DK001-50183
R1061	4.7k 1/16W Chip1608	9DK001-50183
R1062	4.7k 1/16W Chip1608	9DK001-50183
R1077	6.8k 1/16W Chip1608	9DK001-50207
R1079	56 1/16W Resistor Array	9DK001-51039
R1082	22 1/16W Chip1608	9DK001-50159
R1083	1k 1/16W Chip1608	9DK001-50177
R1084	10k 1/16W Chip1608	9DK001-50185
R1085	6.8k 1/16W Chip1608	9DK001-50207
R1089	100 1/16W Chip1608	9DK001-50165
R1099	0 1/16W Chip1608	9DK001-50149
R1101	56 1/16W Resistor Array	9DK001-51039
R1102	56 1/16W Resistor Array	9DK001-51039
R1104	100 1/16W Chip1608	9DK001-50165
R1105	10k 1/16W Chip1608	9DK001-50185
R1107	1k 1/16W Chip1608	9DK001-50177
R1108	16k 1/16W Chip1608	9DK001-50214
R1110	4.7k 1/16W Chip1608	9DK001-50183
R1120	0 1/16W Chip1608	9DK001-50149
R1121	0 1/16W Chip1608	9DK001-50149
R1122	0 1/16W Chip1608	9DK001-50149
R1123	0 1/16W Chip1608	9DK001-50149
R1124	0 1/16W Chip1608	9DK001-50149
R1125	0 1/16W Chip1608	9DK001-50149
R1126	10 1/4W Chip3216	9DK001-50088
R1127	10k 1/16W Chip1608	9DK001-50185
R1128	47 1/16W Chip1608	9DK001-50161
FB15	0 1/10W Chip2125	9DK001-50110
FB18	0 1/10W Chip2125	9DK001-50110
FB19	0 1/10W Chip2125	9DK001-50110
FL1	0 1/10W Chip2125	9DK001-50110
FL98	33 1/10W Chip2125	9DK001-50080
FL99	0 1/10W Chip2125	9DK001-50110
FL102	0 1/10W Chip2125	9DK001-50110
FL110	0 1/10W Chip2125	9DK001-50110

SWITCH

S1	Switch Slide	9DK001-70012

MISCELLANEOUS PARTS

FB50	Ferrite Bead Chip2125	9DK001-81060
FB51	Ferrite Bead Chip2125	9DK001-81060
FB52	Ferrite Bead Chip2125	9DK001-81060
FB53	Ferrite Bead Chip2125	9DK001-81060
CN1	Connector, 15-pin	9DK001-60074
CN3	Connector, 29-pin	9DK001-60053
CN5	Connector, JEY-9P-1A3F	9DK001-60066
CN6	Connector, 30-pin	9DK001-60067
CN7	Connector, 50-pin	9DK001-60058
CN8	Connector, 12-pin	9DK001-60070
CN9	Connector, 13-pin	9DK001-60071

G POWER UNIT

Mark No.	Description	Part No.
IC		
IC701	NJM2375AD	VHiNJM2375AD1
IC702	TNY264P	VHiTNY264P/-1
IC703	TA76431	VHiTA76431S15
TRANSISTOR		
Q701	2SK2662	VS2SK2662//-1
Q702	2SC1741AS	VS2SC1741AS-1
Q703	2SK2700	VS2SK2700//-1
Q704	2SC1741AS	VS2SC1741AS-1
Q705	DTD113ZS	VSDTD113ZS/-1
Q706	DTC124ESA	VSDTC124ESA-1
Q707	DTA124XSA	VSDTA124XSA-1
Q708	DTC124ESA	VSDTC124ESA-1
Q709	DTA114ESA	VSDTA114ESA-1
DIODE		
D701	Diode	VHDD3SB60//-1
D702	Diode	VHD5JL2CZ47-1
D703	Diode	VHD1SS270ATE1
D704	Diode	VHD1SS270ATE1
D705	Zener Diode	VHEHZS18-3/-1
D706	Diode	VHD1SS270ATE1
D707	Diode	VHD05NH45//-1
D708	Diode	VHD05NH45//-1
D709	Diode	VHDAG01////-1
D710	Diode	VHDFMB26L//-1
D711	Zener Diode	VHEHZS12A3/-1
D713	Diode	VHDRK39LFC3-1
D714	1SS270A	VHD1SS270ATE1
D715	Zener Diode	VHEHZS3CLL/-1
D716	Zener Diode	VHEHZS6C2//-1
D717	Diode	VHD1SS270ATE1
PACKAGED CIRCUIT		
⚠ PC701	Photo Coupler PC123FY	VHPPC123FY2-
⚠ PC702	Photo Coupler PC123FY	VHPPC123FY2-
⚠ PC703	Photo Coupler PC123FY	VHPPC123FY2-
⚠ PC704	Photo Coupler PC123FY	VHPPC123FY2-
FILTER AND COIL		
L703	Coil	RCiLC1239SNEZY
L704	Coil	RCiLC1249SNEZ
L705	Coil	RCiLC1250SNEZ
TRANSFORMER		
⚠ T701	Transformer	RTRNP1219SNE
⚠ T702	Transformer	RTRNP1220SNE
TH701	Power Thermistor	VHS8D2-10LD-1
TH702	Power Thermistor	VHS8D2-10LD-1
CAPACITOR		
⚠ C704	0.01 275V Film	RC-M2E103RES
⚠ C705	1000p 250V Ceramic	RCDE0910R102
C706	0.82 400V Film	RC-M2G824MDSC
C707	220p 2kV Ceramic	RCDE0707R221S
C708	56 450V EL.	RC-E2W566KMMZ
C709	0.01 50V Ceramic	RCDD350BC103K
C710	100 35V EL.	RC-E1V107SNPW
C711	0.47 12V Ceramic	RC-DD312F474Z
C713	220p 2kV Ceramic	RCDE0707R221S
C714	220p 2kV Ceramic	RCDE0707R221S
C715	0.1 16V Ceramic	RCDD407SR104K
C716	0.1 16V Ceramic	RCDD407SR104K

Mark	No.	Description	Part No.
	C717	4700p 50V Ceramic	RCDD107-B472K
	C718	0.01 50V Ceramic	RCDD350BC103K
	C719	22 400V EL.	RC-E2G226KMXZ
	C720	100p 2kV Ceramic	RCDE0705SL101
	C721	0.1 16V Ceramic	RCDD407SR104K
	C722	22 50V EL.	RC-E1H226SNPJ
	C723	470 25V EL.	RC-E1E477SNPW
	C724	470 25V EL.	RC-E1E477SNPW
	C725	470 25V EL.	RC-E1E477SNPW
	C726	0.1 16V Ceramic	RCDD407SR104K
	C727	470 25V EL.	RC-E1E477SNPW
	C728	220 10V EL.	RC-E1A227SNPW
	C729	220 10V EL.	RC-E1A227SNPW
	C730	0.1 16V Ceramic	RCDD407SR104K
	C731	0.047 50V Ceramic	RCDD407SR473K
	C732	1 50V EL.	RC-E1H105SNPR
	C733	2200p 50V Ceramic	RCDD106-B222K

RESISTOR

	R702	1M 1/4W Carbon	VRD-HT2EY105J
	R703	1M 1/4W Carbon	VRD-HT2EY105J
	R704	22k 1/4W Carbon	VRD-HT2EY223J
	R705	10 1/4W Carbon	VRD-HT2EY100J
	R706	0.15 2W M-Ox.	RR-HRNMR15J2C
	R707	820k 1/4W Carbon	VRD-HT2EY824J
	R708	750k 1/4W Carbon	VRD-HT2EY754J
	R709	0 1/4W Carbon	VRD-HT2EY000J
	R710	15k 1/4W Carbon	VRD-HT2EY153J
	R711	560 1/4W Carbon	VRD-HT2EY561J
	R712	1k 1/4W Carbon	VRD-HT2EY102J
	R713	10k 1/4W Carbon	VRD-HT2EY103J
	R714	100 2W M-Ox.	VRS-RE3DA101J
	R715	270k 1/2W Carbon	VRD-HT2HY274J
	R716	270k 1/2W Carbon	VRD-HT2HY274J
	R717	18k 1/4W Carbon	VRD-HT2EY183J
	R718	5.6k 1/4W Carbon	VRD-HT2EY562J
	R719	3 3W M-Ox.	RR-HRSM3R0J3C
	R720	1.5k 1/4W Carbon	VRD-HT2EY152J
	R721	220 1/2W Carbon	VRD-HT2HY221J
	R722	68 1/4W Carbon	VRD-HT2EY680J
	R723	100 1/4W Carbon	VRD-HT2EY101J
	R724	470 1/4W Carbon	VRD-HT2EY471J
	R725	1k 1/4W Carbon	VRD-HT2EY102J
	R726	1.2k 1/4W Carbon	VRD-HT2EY122J
	R727	1.5k 1/2W Carbon	VRD-HT2HY152J
	R728	10 1/4W Carbon	VRD-HT2EY100J
	R729	100 1/4W Carbon	VRD-HT2EY101J
	R730	220 1/4W Carbon	VRD-HT2EY221J
	R731	1k 1/4W Carbon	VRD-HT2EY102J
	R732	10k 1/4W Carbon	VRD-HT2EY103J
	R733	3.6k 1/4W Carbon	VRNHT2EK3601F
	R734	150 1/4W Carbon	VRNHT2EK1500F
	R735	1k 1/4W Carbon	VRNHT2EK1001F
	R736	1k 1/4W Carbon	VRD-HT2EY102J
	R737	2.2k 1/4W Carbon	VRD-HT2EY222J
	R738	2.2k 1/4W Carbon	VRD-HT2EY222J
	R739	5.6k 1/4W Carbon	VRD-HT2EY562J
	R740	51k 1/4W Carbon	VRD-HT2EY513J

SWITCH

⚠	SW701	Switch	QSW-P0591CEZ

Mark	No.	Description	Part No.

MISCELLANEOUS PARTS

	FB701	Ferrite Bead	RCORF1011SNEZ
	FB702	Ferrite Bead	RCORF1011SNEZ
⚠	RL701	Relay	RRLYD1010SNE
⚠	F702	Fuse T2A 250V TR-5	QFS-A1129SNE
	CN702	Connector, 3-pin	QCNCM1003SNEZ
	CN703	Connector, 12-pin	QCNCM1766SNEZ
		Heat Sink	PRDAF1085SNEZ
		Heat Sink	PRDAF1073SNEZ

H EMC UNIT

DIODE

⚠	VA701	Varistor	VHVNV470D10-

FILTER

⚠	L701	Filter	RCiLZ1230SNE
⚠	L702	Filter	RCiLZ1230SNE

CAPACITOR

⚠	C701	0.22 275V Film	RC-M2E224RES
⚠	C702	1000p 250V Ceramic	RCDE0910R102
⚠	C703	1000p 250V Ceramic	RCDE0910R102
⚠	C735	0.22 275V Film	RC-M2E224RES

RESISTOR

	R701	390k 1/2W Carbon	VRD-HT2HY394J
	R741	5.6M 1/2W Carbon(PDP-R03U)	RR-RCR50+565J
	R742	5.6M 1/2W Carbon(PDP-R03U)	RR-RCR50+565J

MISCELLANEOUS PARTS

⚠	F701	Fuse T2A 250V TR-5	QFS-A1129SNE
⚠	CN701	Socket, 3-pin	QSOCA1012SNE
	CNW701	Connecting Cord (NF)	QCNW-1765SNEZ
	CNW702	Connecting Cord (Earth)	QCNW-1769SNEZ

6. ADJUSTMENT



■ Procedure for turning ON the power

1. Connecting the system

(1) Using the system cable, interconnect the plasma display and the AVC system.
(2) Connect the plasma display to the AC power source.
(3) Connect the AVC System to the AC power source.

2. Procedure for turning ON the power

(1) Turn ON the AC power switch located on the plasma display.
The power indicator on the plasma display will start blinking in red.
(When the AC power switch on the AVC System is not ON, the power indicator on the plasma display always blinks in red.)
(2) Turn ON the power switch located on the AVC System.
The power indicator on the AVC System will be illuminated in green. Simultaneously, the power indicator on the plasma display will change from blinking in red to illumination in green. Now the system has started up.
(3) If the power indicators on the AVC System and on the plasma display are both illuminated in red, press the power key located on the remote controller and the power button located on the plasma display. The power indicators on the plasma display and on the AVC System will change from red to green. Now the system has started up.

■ Procedure for upgrading the AVC System software

(1) With the power being OFF, open the top cabinet of the AVC System and then set the slide switch from the NORMAL position to the WRITE position by inserting an insulated stick into the cutout located between the WHITE port on the rear of the shield case for the PC I/F unit and the RS-232C port. (Or the software may be upgraded by calling the process adjustment mode and using CENTER PROG UPDATE on the process adjustment menu screen. This is discussed later.)
(2) Connect a program-installed PC to the AVC system using the RS-232C cross cable. (For the details of the program, see Appendix.)
(3) Open the MS-DOS window on the PC and then go to the directory in which the software is installed.
(4) Start up the system to which the AVC System and plasma display have been connected.
(5) Run “vup.bat (tentative name)” at the MS-DOS prompt. The software will be upgraded.
(6) Load the file “civic_XXXXa.bhx main.bhx osd.bhx (tentative name)”.
It will take a couple of minutes until the file has been loaded. Never turn OFF the power or operate the system during this rewriting period.
(7) After the file has been loaded, turn OFF the plasma display and the AVC System, and then return the slide switch in the above step (1) back from the WRITE position to the NORMAL position. Now the software has been upgraded.

■ Procedure for adjusting each part of the AVC System

1. The adjustments were made to the best settings at factory. If any setting deviates or if any readjustment is regarded as necessary when any part has been replaced, perform the following steps.
2. Any parameter that has been changed in the process adjustment mode is stored on the memory. If any readjustment is required, write down the current value before changing it.
3. Use a stable AC power source.
4. If the program is upgraded, it will take approximately 1 minute for the EEPROM to be initialized before any video appears. Therefore, you will need to wait for this time period. Do not turn OFF the power or operate the system during the period.
5. If the program is rewritten, preferably write down the parameters that have been changed within the process adjustment (see “OSD menu and parameters displayed at manual adjustment”), initialize the EEPROM, and then reenter the recorded values.

■ Entering a special mode

1. Entering the process adjustment mode

With the system being ON, turn OFF the main power of the plasma display. Next holding down the INPUT SELECT and CH UP buttons on the plasma display itself, turn ON the main power again. Now the adjustment mode screen shows up.

2. Adjustments in the adjustment process mode

[Steps]
Make adjustments using the process adjustment mode buttons, listed below.
[Description]
Following the items displayed on the process adjustment menu screen, adjust the settings given in their adjustment tables.

3. Procedure for making factory settings

[Steps]
In the process adjustment mode, move the cursor to the line “INDUSTRY INIT” onscreen. Turn ON with the VOL key and press the SET/ENTER key.
(Within the adjustment process, the channel settings remain unchanged. Once you exit the process adjustment mode, the channel settings entered in the delivery adjustment mode become valid.)
[Description]
The user’s adjustment parameters and others will be set to the default values. Keep in mind that the channel settings will also be initialized.

■ Exiting the process adjustment mode

To exit the process adjustment mode, turn off the AVC System power.

■ OSD menu and parameters displayed at manual adjustment

- The default values may slightly differ depending upon the program version to be rewritten.
- The settings are not initialized to the default values by merely rewriting the program. (See the paragraph for Procedure for adjusting each part of the AVC System.)

(1) Descriptions of special buttons in process adjustment mode
(All on the remote controller)

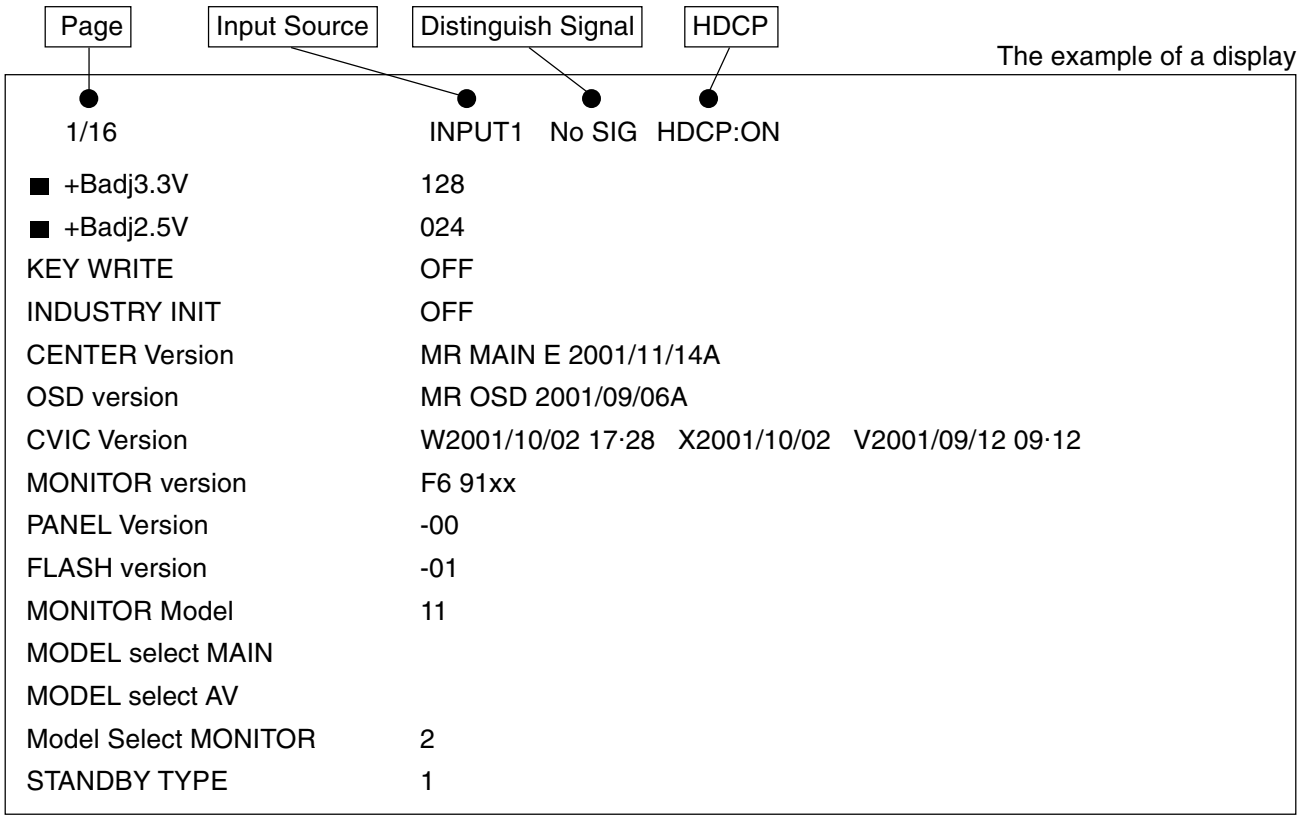
Cursor UP key	: Returns to the previous page.
Cursor DOWN key	: Proceeds to the next page.
Vol UP key	: Increases the adjusted value by 1.
Vol DOWN key	: Decreases the adjusted value by 1.
Cursor RIGHT key	: Increases the adjusted value by 10.
Cursor LEFT key	: Decreases the adjusted value by 10.
CH UP key	: Moves up the cursor.
CH DOWN key	: Moves down the cursor.

(2) Process adjustment menu table
The items displayed on the menu screen must be written down before replacing the EEPROM at the AVC System side.

■ Procedure for replacing the PC I/F unit

Before replacing the PC I/F unit, write down the items displayed on each menu screen of the adjustment process. If the I/F unit is completely broken and the above items cannot be jotted down in advance, follow the instructions in “Adjustment procedures and items” and make all adjustments.

(2) Organization of process adjustment screen



Parameter display	Setting range	Description
■ +B Adj3.3V	0 ~ 255	3.3 V adjustment
■ +B Adj2.5V	0 ~ 255	2.2 V adjustment
■ SUB N358 Y	0 ~ 63	Sub N358 Y level adiustment
■ SUB N358 COLOR GAIN	0 ~ 63	Sub N358 color gain adjustment
■ SUB N358 TINT	0 ~ 63	Sub N358 tint adjustment
■ N358 Y CONTRAST	0 ~ 63	Main N358 Y contrast adjustment
■ N358 COLOR GAIN	0 ~ 63	Main N358 color gain adjustment
■ MAIN CR GAIN N358	0 ~ 255	Main N358 Cr level adjustment
■ N358 TINT	0 ~ 63	Main N358 Tint adjustment
■ MAIN CONTRAST 15K	0 ~ 63	Main Contrast adjustment (15k)
■ MAIN SUB BRIGHT 15K	0 ~ 15	Main sub bright adjustment (15k)
■ COMP 15K Y CONTRAST	0 ~ 63	COMP 15k Y level adjustment
■ COMP 15K COLOR GAIN	0 ~ 63	COMP 15k Color gain adjustment
■ MAIN CR GAIN COMP 15K	0 ~ 255	COMP 15k Cr level adjustment
■ COMP HDTV CONTRAST	0 ~ 63	COMP HDTV contrast level adjustment
■ COMP HDTV SUB BRIGHT	0 ~ 63	COMP HDTV black level adjustment
■ PEAK ACL SW	OFF/ON	

The values for the above parameters should be written down before the EEPROM is replaced on the AVC System.

■ Procedures before and after replacing the PC I/F unit

1) Before replacing the PC I/F unit, write down the values for the parameters listed on the 2nd and 3rd pages of the Adjustment Process A screen.
If the values for the parameters cannot be written down because the PC I/F unit is completely broken or for any other reason, make all the adjustments in accordance with the paragraph for Adjustment procedure and parameters, rather than the following procedures. (End)
Set the parameters listed on the 2nd and 3rd pages of the Adjustment Process A screen to the values you have written down.

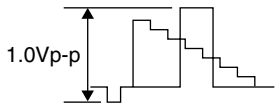
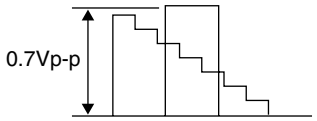
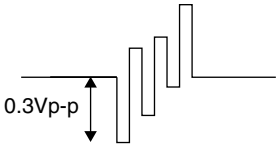
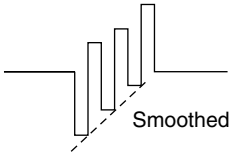
■ Adjustment parameters

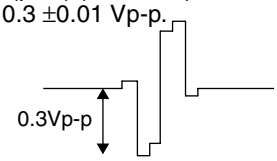
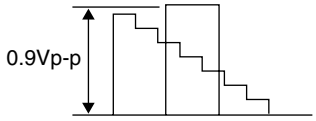
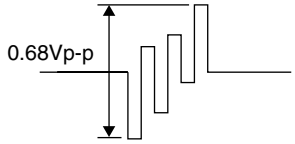
1) Analog adjustment

(1) Prior adjustment for AVC system chassis

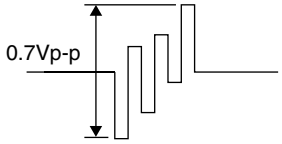
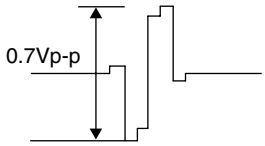
	Adjustment item	Description	Adjustment procedure
1	Process adjustment mode		Call the process adjustment mode.
2	AVC center 3.3V adjustment	Connect DC voltmeter to TP1702.	Adjust output voltage of DC/DC 3.3 V line to 3.25 ±0.01 V.
3	AVC center 2.5V adjustment	Connect DC voltmeter to TP1701.	Adjust output voltage of DC/DC 2.5 V line to 2.6 ±0.01 V.

(2) N358 signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Receive the SPLIT FIELD color bar signal. white 100%, 75% color bar, modulation
2	Tuner level adjustment	• MAIN side • SUB side	1. Adjust the V-LEVEL (R1121) control so that the tuner output (TP1101) on the AV PWB (DUNTKA616) should be 1.0 ±0.02 Vp-p. 2. Adjust the V-LEVEL (R1219) control so that the tuner output (TP1201) on the AV PWB (DUNTKA616) should be 1.0 ±0.02 Vp-p. 
3	MAIN N358 Y CONTRAST adjustment		1. Adjust TB1274_MAIN output (pin (1) of P801) to 0.7 ±0.01 Vp-p. 
4	MAIN N358 COLOR GAIN adjustment		1. Adjust TB1274_MAIN output (pin (3) of P801) so that the level shown below should be 0.3 ±0.01 Vp-p. 
5	MAIN N358 TINT adjustment		1. Adjust TB1274_MAIN output (pin (3) of P801) so that the waveform should become as shown below. 

	Adjustment item	Description	Adjustment procedure
6	MAIN N358 Cr level adjustment		1. Adjust TB1274_MAIN output (pin (5) of P801) so that the level shown below should be 0.3 ±0.01 Vp-p. 
7	MAIN N358 CONTRAST adjustment	Peak ACL: OFF Check DC Tran 01	1. Turn off the PEAK ACL control. Adjust the output (TP815) of IC810 to have 1.1 Vp-p from the pedestal level. Adjusted value: 1.1 ±0.02 V
		Press the TWIN PICTURE key.	1. Select the special TWIN PICTURE settings for adjustment (so that the same video source is reflected on MAIN/SUB).
8	SUB N358 Y LEVEL adjustment		1. Adjust TB1274_SUB output (TP806) to 0.9 ±0.02 Vp-p. 
9	SUB N358 COLOR GAIN adjustment		1. Adjust TB1274_SUB output (TP805) so that the level shown below should be 0.68 ±0.01 Vp-p. 

(3) Component 15 kHz signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Select the component 15 kHz source (100% white color bar signal).
2	COMPONENT 15 kHz Y level adjustment		1. Adjust TB1274_MAIN output (pin (1) of P801) to 0.7 ±0.01 Vp-p.
3	COMPONENT 15 kHz COLOR GAIN adjustment		1. Adjust TB1274_MAIN output (pin (3) of P801) so that the level shown below should be 0.7 ±0.01 Vp-p. 
4	COMPONENT 15 kHz Cr level adjustment		1. Adjust TB1274_MAIN output (pin (3) of P801) so that the level shown below should be 0.7 ±0.01 Vp-p. 

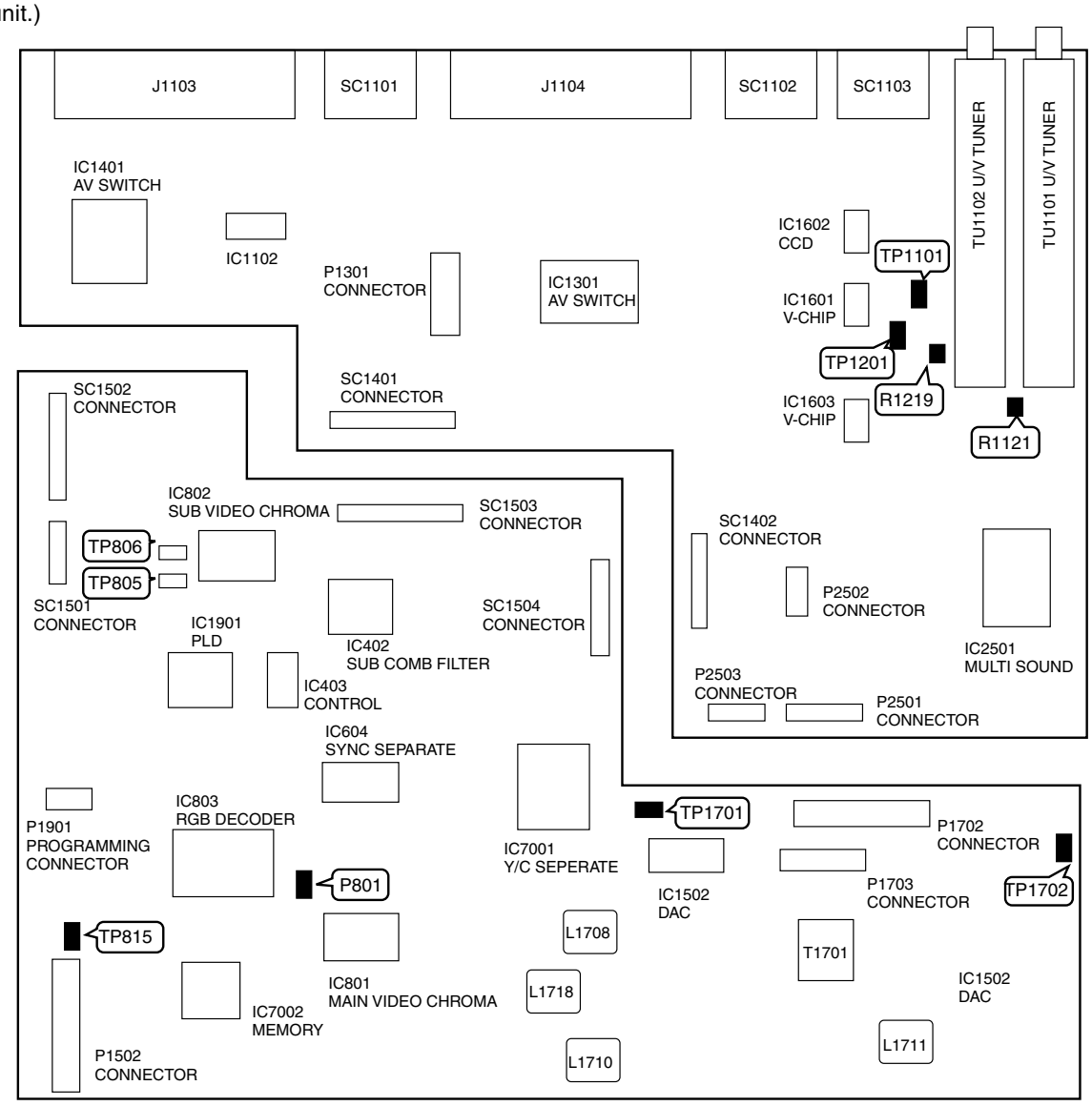
(4) Component HDTV signal adjustment

	Adjustment item	Description	Adjustment procedure
1	Setup		1. Select the component HDTV source (100% white color bar signal).
2	COMPONENT HDTV CONTRAST adjustment	Peak ACL: OFF	1. Turn off the PEAK ACL control. Adjust the output (TP815) of IC810 to have 1.1 ±0.02 Vp-p from the pedestal level.

2. Factory settings

	Adjustment item	Description	Adjustment procedure
1	INDUSTRY INIT		Check the PEAK ACL is "ON" and DC Tran is "00". Press the Delivery Setup key on the remote controller. Or position the cursor on the INDUSTRY INIT line, set the line to ON with the VOL key, and then press the ENTER key. The adjustment is finished when the line turns OFF.

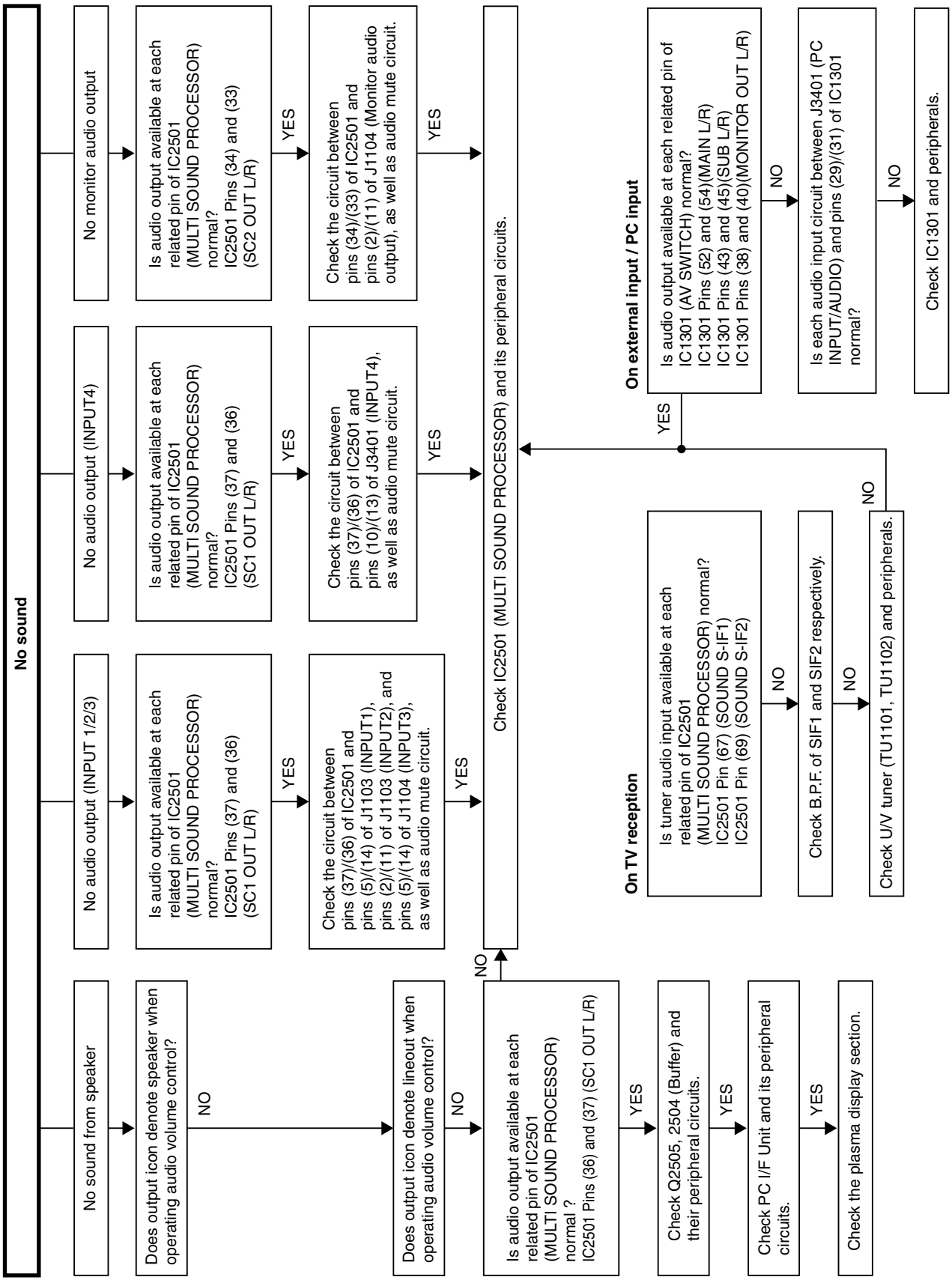
Then turn off the AC power supply of the AVC System. (Be careful not to use the power switches of the remote controller and panel unit.)

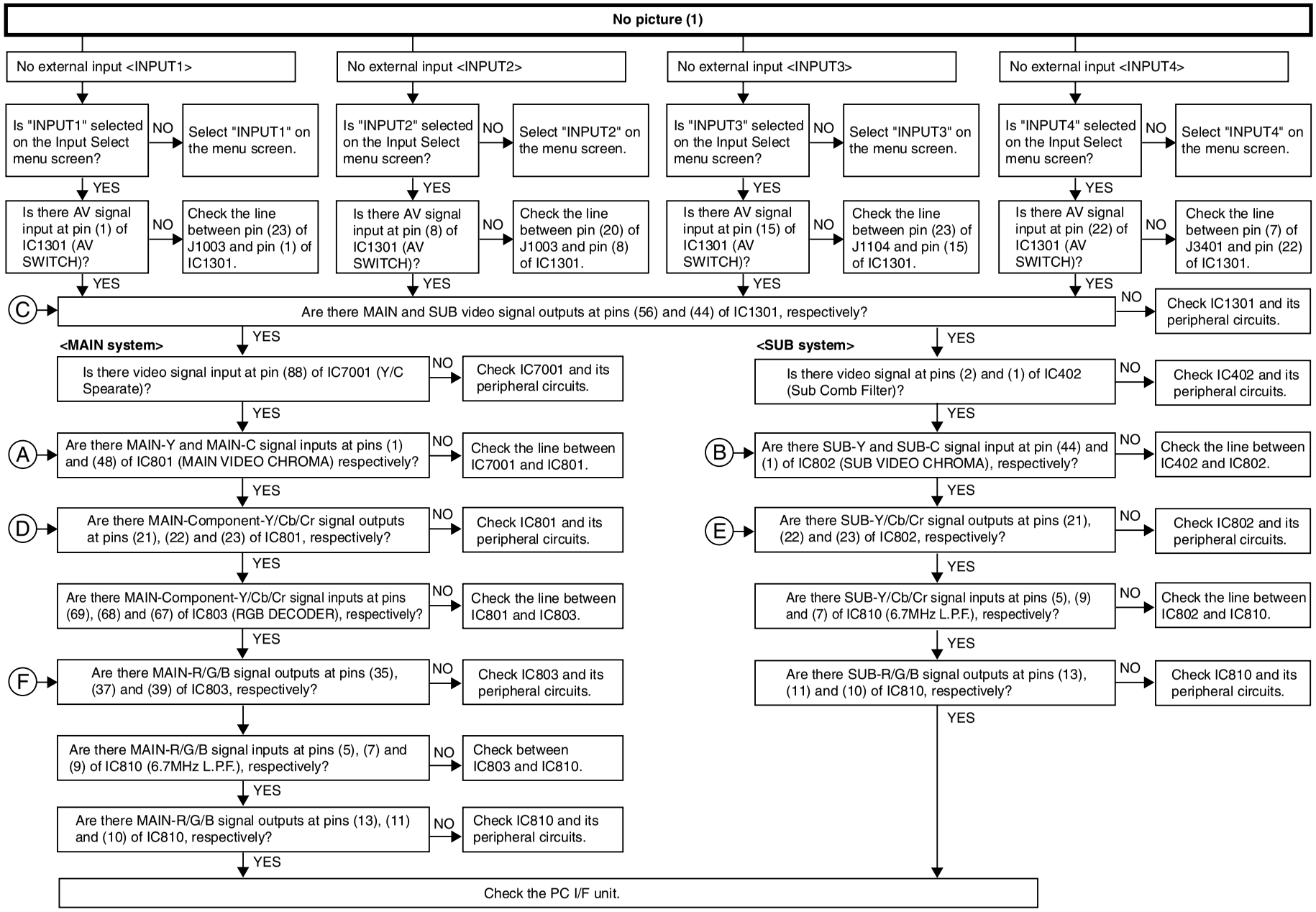


7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TROUBLE SHOOTING



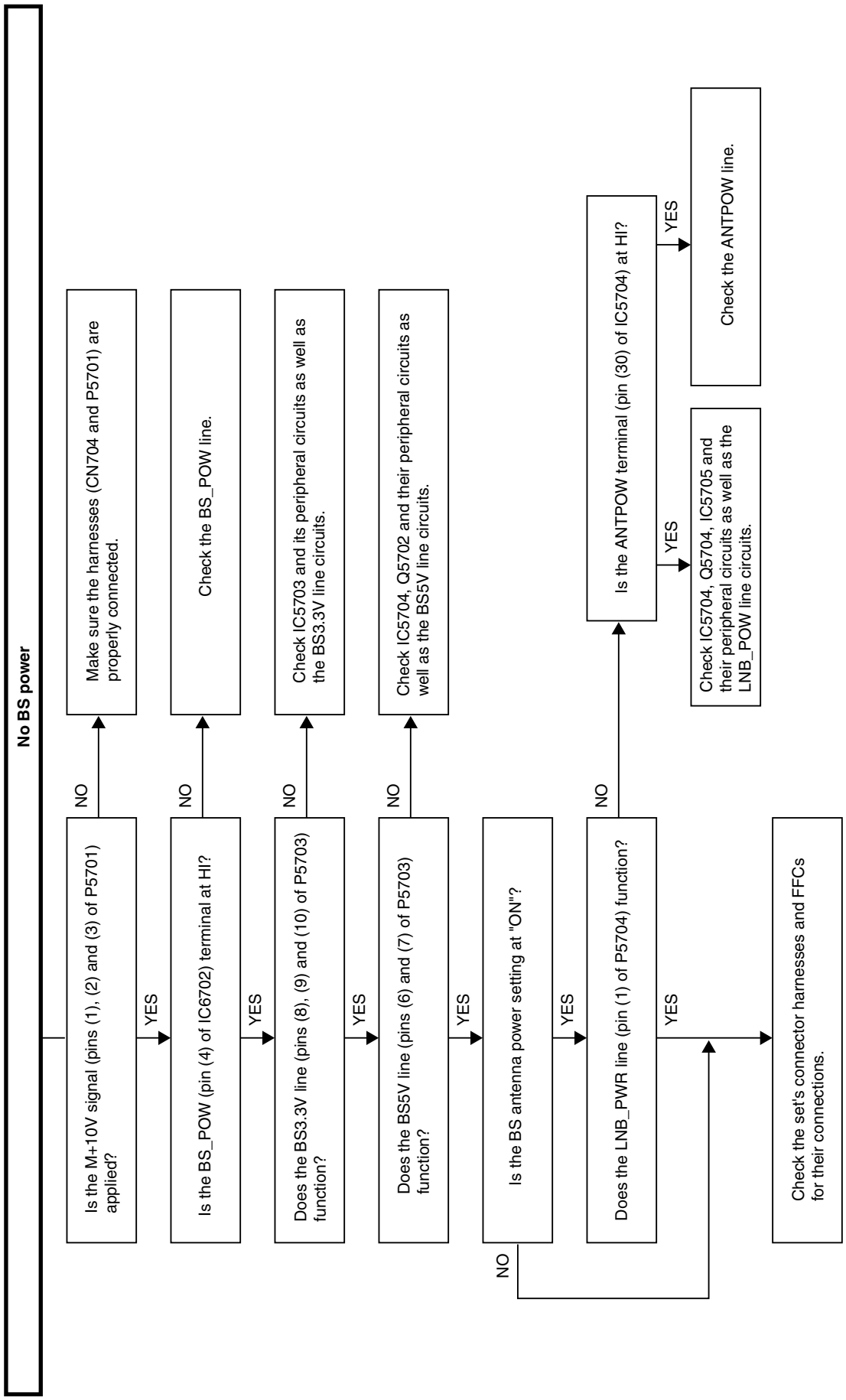

No picture (1)
No external input <INPUT1>
Is "INPUT1" selected on the Input Select menu screen?
NO
Select "INPUT1" on the menu screen.
YES
Is there AV signal input at pin (1) of IC1301 (AV SWITCH)?
NO
Check the line between pin (23) of J1003 and pin (1) of IC1301.
YES
No external input <INPUT2>
Is "INPUT2" selected on the Input Select menu screen?
NO
Select "INPUT2" on the menu screen.
YES
Is there AV signal input at pin (8) of IC1301 (AV SWITCH)?
NO
Check the line between pin (20) of J1003 and pin (8) of IC1301.
YES
No external input <INPUT3>
Is "INPUT3" selected on the Input Select menu screen?
NO
Select "INPUT3" on the menu screen.
YES
Is there AV signal input at pin (15) of IC1301 (AV SWITCH)?
NO
Check the line between pin (23) of J1104 and pin (15) of IC1301.
YES
No external input <INPUT4>
Is "INPUT4" selected on the Input Select menu screen?
NO
Select "INPUT4" on the menu screen.
YES
Is there AV signal input at pin (22) of IC1301 (AV SWITCH)?
NO
Check the line between pin (7) of J3401 and pin (22) of IC1301.
YES
C
Are there MAIN and SUB video signal outputs at pins (56) and (44) of IC1301, respectively?
NO
Check IC1301 and its peripheral circuits.
YES
<MAIN system>
Is there video signal input at pin (88) of IC7001 (Y/C Spearate)?
NO
Check IC7001 and its peripheral circuits.
YES
A
Are there MAIN-Y and MAIN-C signal inputs at pins (1) and (48) of IC801 (MAIN VIDEO CHROMA) respectively?
NO
Check the line between IC7001 and IC801.
YES
D
Are there MAIN-Component-Y/Cb/Cr signal outputs at pins (21), (22) and (23) of IC801, respectively?
NO
Check IC801 and its peripheral circuits.
YES
Are there MAIN-Component-Y/Cb/Cr signal inputs at pins (69), (68) and (67) of IC803 (RGB DECODER), respectively?
NO
Check the line between IC801 and IC803.
YES
F
Are there MAIN-R/G/B signal outputs at pins (35), (37) and (39) of IC803, respectively?
NO
Check IC803 and its peripheral circuits.
Are there MAIN-R/G/B signal inputs at pins (5), (7) and (9) of IC810 (6.7MHz L.P.F.), respectively?
NO
Check between IC803 and IC810.
YES
Are there MAIN-R/G/B signal outputs at pins (13), (11) and (10) of IC810, respectively?
NO
Check IC810 and its peripheral circuits.
YES
<SUB system>
Is there video signal at pins (2) and (1) of IC402 (Sub Comb Filter)?
NO
Check IC402 and its peripheral circuits.
YES
B
Are there SUB-Y and SUB-C signal input at pin (44) and (1) of IC802 (SUB VIDEO CHROMA), respectively?
NO
Check the line between IC402 and IC802.
YES
E
Are there SUB-Y/Cb/Cr signal outputs at pins (21), (22) and (23) of IC802, respectively?
NO
Check IC802 and its peripheral circuits.
YES
Are there SUB-Y/Cb/Cr signal inputs at pins (5), (9) and (7) of IC810 (6.7MHz L.P.F.), respectively?
NO
Check the line between IC802 and IC810.
YES
Are there SUB-R/G/B signal outputs at pins (13), (11) and (10) of IC810, respectively?
NO
Check IC810 and its peripheral circuits.
YES
Check the PC I/F unit.

Power switch on, but no power
(Front LED indicator does not change from red to green, but remains in red.)

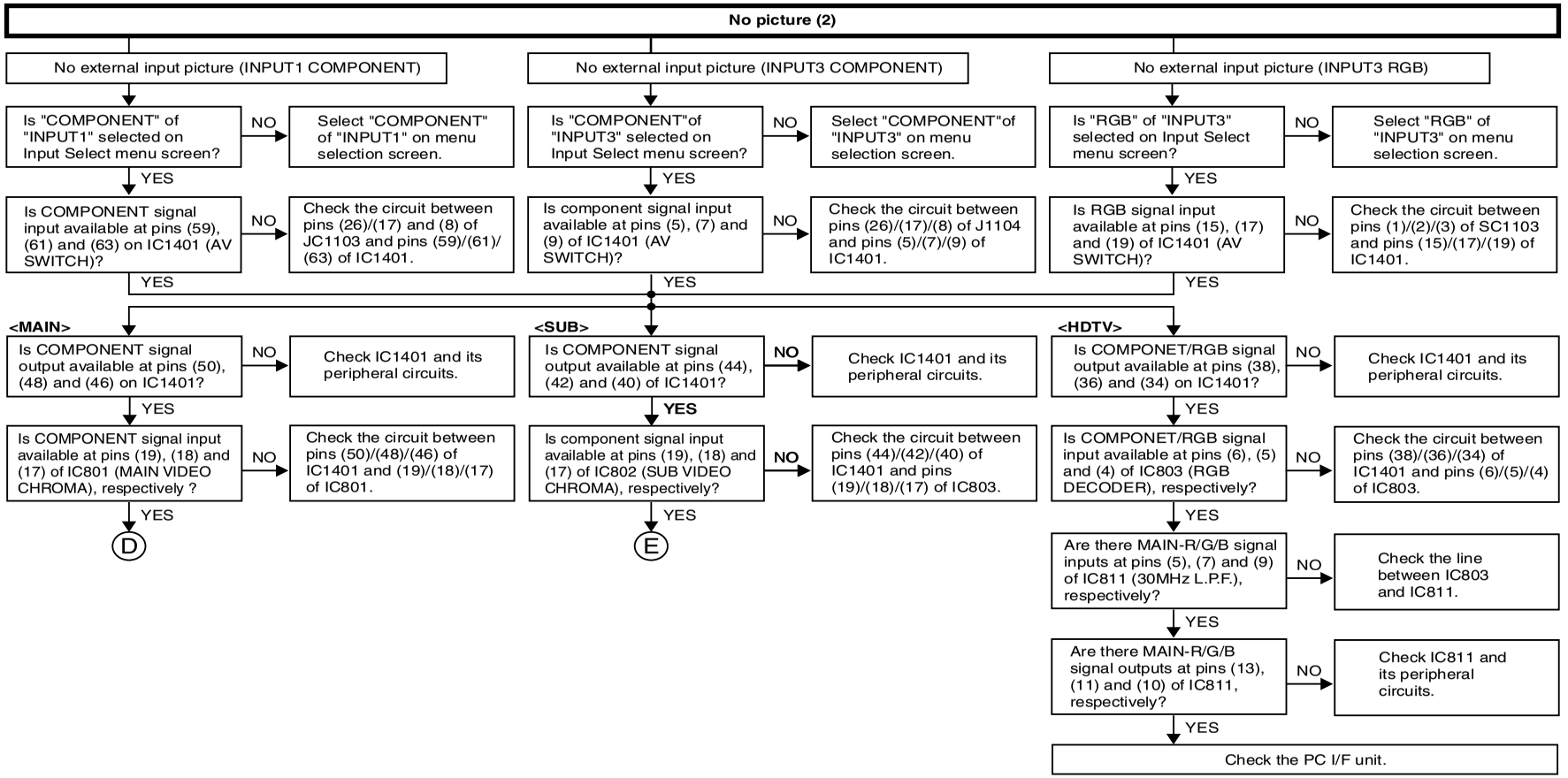
- Are the MDR and DVI cable connectors (white and gray) properly connected with the PDP and the set as well?
  - NO → Reinsert the connectors, and turn on the power again.
  - YES ↓
- Is the PDP's power switch on?
  - NO → Turn on the PDP's power switch.
  - YES ↓
- Is the M+10V line as specified?
  - NO → Is the PS_ON terminal (pin (1) of CN703) at HI (3.5V)?
    - NO → Check the PS_ON line.
    - YES → Is the impedance of the M+10V line as specified? (Measure the resistance between F1702 and GND.)
      - NO → Check the M+10V line as well as its circuit parts.
      - YES → Are there voltage fluctuations along the OVP line (pin (12) of P1502)?
        - NO → Check the internal parts of the power unit (Q703, Q704, Q708, Q709, D717, D710 and D711).
        - YES → Are the D_POW and B+2.5V_POW settings (pins (30), (32), (33) and (34) of IC1701) at HI?
          - NO → Chekc the D_POW and B+2.5V_POW lines (pins (6) and (7) of IC1503).
          - YES → Are the DC/DC converter output lines and MOS-FET (Q1712, Q1716, Q1726 and Q1718) as specified?
            - NO → Check the DC/DC converter output lines and replace the MOS-FET (Q1712, Q1716, Q1726 and Q1718).
            - YES → Replace IC1701.
  - YES ↓
- Do the +5V line (pin (10) of P1703), +2.5V line (pins (5) and (6) of P1702), and +3.3V line (pin (8) of P1702) all function?
  - NO → Are the D_POW and B+2.5V_POW settings (pins (30), (32), (33) and (34) of IC1701) at HI?
  - YES → Check the set's wire harnesses, FFCs and other parts for their connections.

Power-on failure (Front LED indicator stays off.)

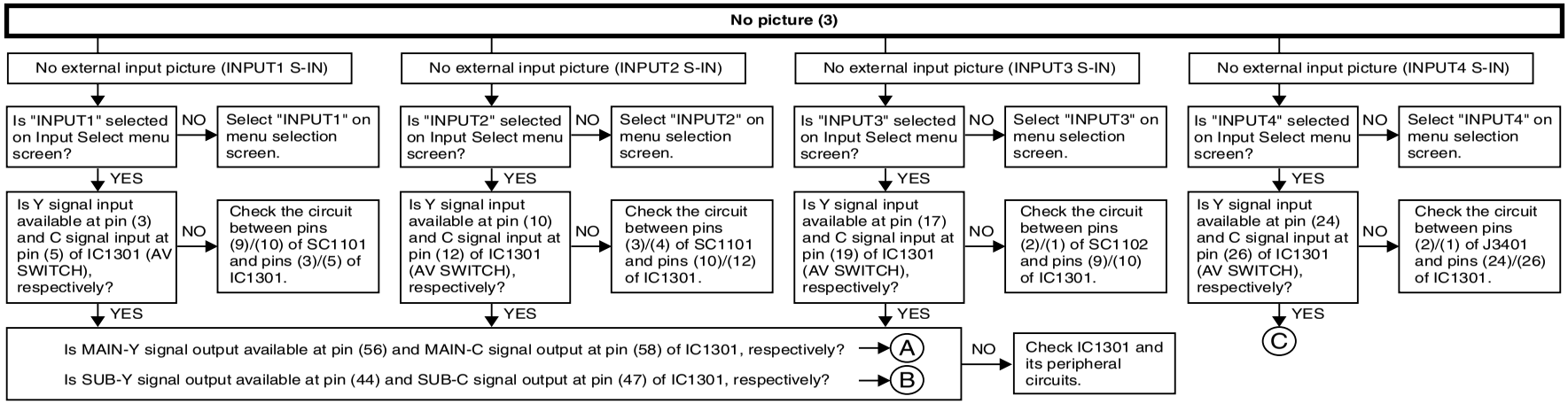
- Is the power cable connector properly connected with the set?
  - NO → Reinsert the power cable connector and turn on the power again.
  - YES ↓
- Are F701 and F702 intact in place?
  - NO → Replace F701 or F702 and turn on the power again. If the fuse blows out again, replace VA701, Q701, Q703 and IC702 and check the performance again.
  - YES ↓
- Does the BACK5V line function?
  - NO → Check the BACK5V line. Is there any defective part or short-circuit?
    - YES → Repair the defective part or short-circuit. Check the performance again.
    - NO → Check IC701, T702, PC703 and their peripheral circuits.
  - YES → Check the set's wire harnesses, FFCs and other parts for their connections.


No BS power
Is the M+10V signal (pins (1), (2) and (3) of P5701) applied?
NO
Make sure the harnesses (CN704 and P5701) are properly connected.
YES
Is the BS_POW (pin (4) of IC6702) terminal at HI?
NO
Check the BS_POW line.
YES
Does the BS3.3V line (pins (8), (9) and (10) of P5703) function?
NO
Check IC5703 and its peripheral circuits as well as the BS3.3V line circuits.
YES
Does the BS5V line (pins (6) and (7) of P5703) function?
NO
Check IC5704, Q5702 and their peripheral circuits as well as the BS5V line circuits.
YES
Is the BS antenna power setting at "ON"?
NO
YES
Does the LNB_PWR line (pin (1) of P5704) function?
NO
Is the ANTPOW terminal (pin (30) of IC5704) at HI?
YES
Check the ANTPOW line.
YES
Check IC5704, Q5704, IC5705 and their peripheral circuits as well as the LNB_POW line circuits.
Check the set's connector harnesses and FFCs for their connections.

No picture (2)



No picture (3)



No picture (4)

- No monitor picture (AV-OUT)
  - Is video signal output available at pin (41) of IC1301 (AV SWITCH)?
    - NO → Check IC1301 and its peripheral circuits.
    - YES → Check the circuit between pin (41) of IC1301 and pin (20) of J1104.
- No monitor picture (S-OUT)
  - Is Y signal output available at pin (39) and C signal output at pin (37) of IC1301 (AV SWITCH), respectively?
    - NO → Confirm input signal is S-INPUT.
      - YES → Check IC1301 and its peripheral circuits.
    - YES → Check the circuit between pins (39)/(37) of IC1301 and pins (3)/(4) of SC1102.

No picture (5)

- No TV picture
  - YES
  - Is video output available at pin (19) of TU1101 and TU1102 (U/V tuner)?
    - NO → Check U/V tuner and its peripheral circuits.
    - YES
    - Is video input signal available at pins (63) and (60) of IC1301?
      - NO → Check the circuit between pin (19) of TUNER and pins (63)/(60) of IC1301.
      - YES → (C)

Synchronization failure

MAIN

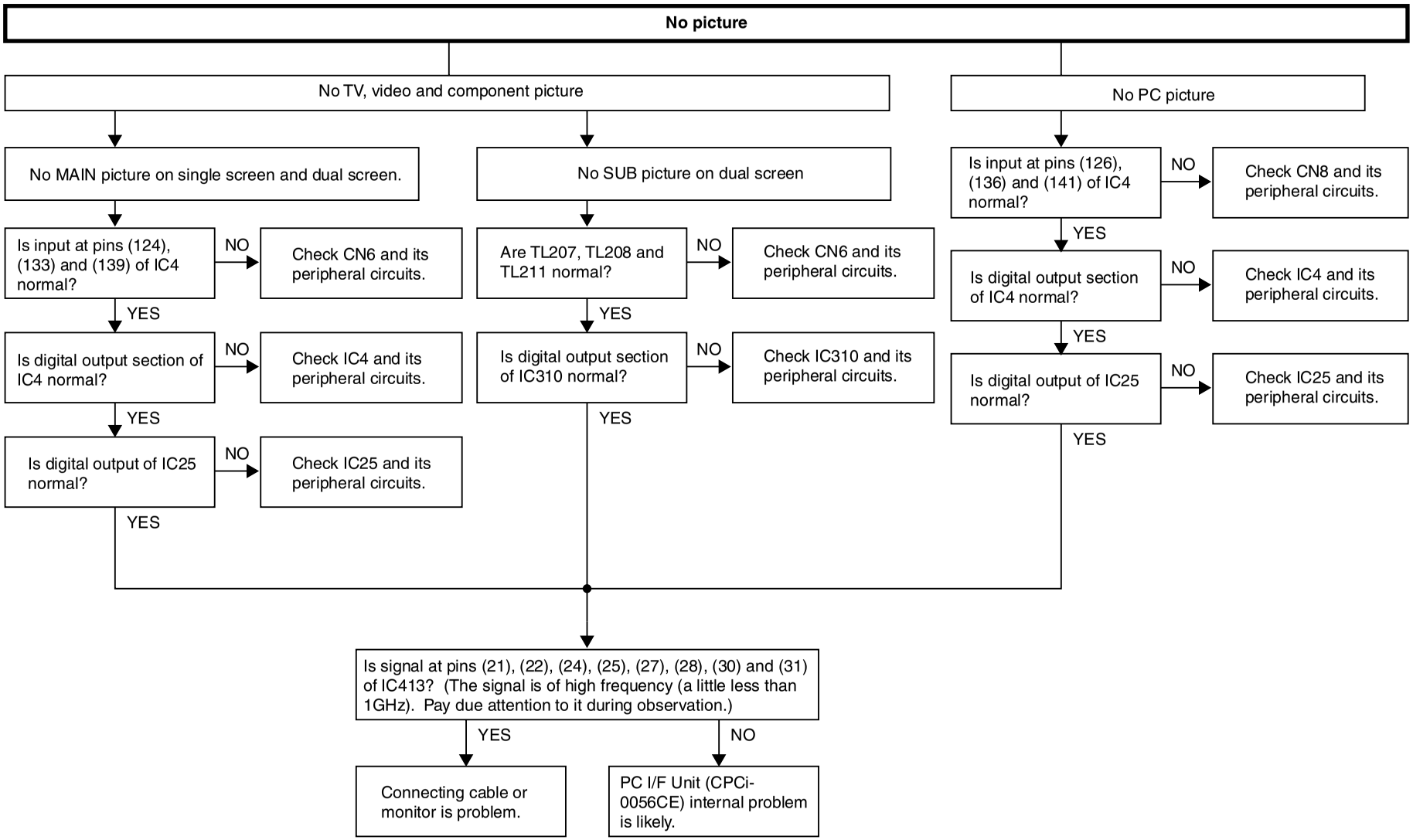
- Is VDM/HDM output available at pins (28) and (29) of IC803 (RGB DECODER)?
  - NO → Check IC803 and its peripheral circuits.
  - YES
- Is HI/VI IN input available at pins (66) and (65) of IC803?
  - NO → Check the circuit between pins (35)/(34) of IC1901 and pins (66)/(65) of IC803.
  - YES
- Is PL-HD/VD output available at pins (34) and (35) of IC1901 (PLD)?
  - NO → Check IC1901 and its peripheral circuits.
  - YES
- Is HD1/VD1 input available at pins (44) and (2) of IC1901?
  - NO → Check the circuit between pins (4)/(9) of IC801 and pins (2)/(44) of IC1901.
  - YES
- Is HD1/VD1 output available at pins (9) and (4) of IC801 (MAIN VIDEO CHROMA)?
  - NO → Check IC801 and its peripheral circuits.

SUB

- Is HDS/VDS output available at pins (21) and (22) on IC1901 (PLD)?
  - NO → Check IC1901 and its peripheral circuits.
  - YES
- Is VD2/HD2 input available at pins (20) and (19) of IC1901?
  - NO → Check the circuit between pins (4)/(9) of IC802 and pins (20)/(19) of IC1901.
  - YES
- Is HD2/VDM2 output available at pins (9) and (4) of IC802 (SUB VIDEO CHROMA)?
  - NO → Check IC802 and its peripheral circuits.

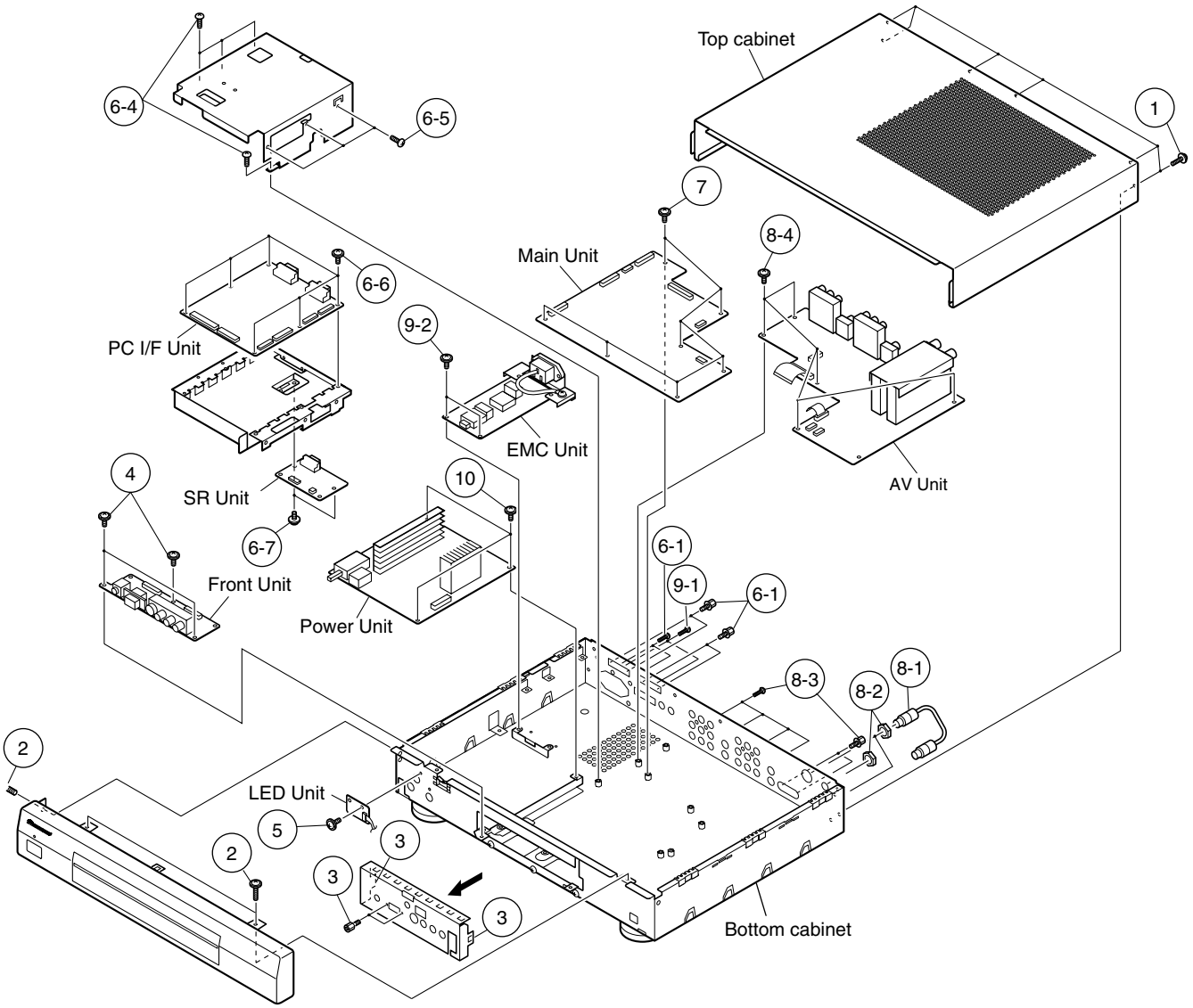
HDTV

- Is SP-VD/HD input available at pins (5) and (40) of IC1901?
  - NO → Check the circuit between pins (28)/(16) of IC604 and pins (5)/(40) of IC1901.
  - YES
- Is SP-HD/VD output available at pins (16) and (28) of IC604 (SYNC SEP)?
  - NO → Check IC604 and its peripheral circuits.


No picture
No TV, video and component picture
No PC picture
No MAIN picture on single screen and dual screen.
No SUB picture on dual screen
Is input at pins (124), (133) and (139) of IC4 normal?
NO
Check CN6 and its peripheral circuits.
YES
Is digital output section of IC4 normal?
NO
Check IC4 and its peripheral circuits.
YES
Is digital output of IC25 normal?
NO
Check IC25 and its peripheral circuits.
YES
Are TL207, TL208 and TL211 normal?
NO
Check CN6 and its peripheral circuits.
YES
Is digital output section of IC310 normal?
NO
Check IC310 and its peripheral circuits.
YES
Is input at pins (126), (136) and (141) of IC4 normal?
NO
Check CN8 and its peripheral circuits.
YES
Is digital output section of IC4 normal?
NO
Check IC4 and its peripheral circuits.
YES
Is digital output of IC25 normal?
NO
Check IC25 and its peripheral circuits.
YES
Is signal at pins (21), (22), (24), (25), (27), (28), (30) and (31) of IC413? (The signal is of high frequency (a little less than 1GHz). Pay due attention to it during observation.)
YES
NO
Connecting cable or monitor is problem.
PC I/F Unit (CPCi-0056CE) internal problem is likely.

7.1.2 DISASSEMBLY

1. Remove the six lock screws from the back of the top cabinet. Slide the top cabinet backward and detach it.
2. Remove the three lock screws from the front panel. Undo the three hooks at the top and the four hooks at the bottom, and detach the front panel.
3. Remove the two hexagonal shafts from the front shield. Undo the four hooks on both sides and detach the front shield.
4. Remove the three lock screws from the front unit and detach this unit.
5. Remove the one lock screw from the LED unit and detach this unit.
6. Remove the PC I/F unit and SR unit assemblies.
   - 6-1. Remove the two hexagonal shafts each from the system cable (white) terminal and the RS-232C terminal, both on the PC I/F unit.
   - 6-2. Remove two lock screws from the system cable (gray) terminal also on the SR unit.
   - 6-3. Remove the two lock screws from the PC I/F unit bracket.
   - 6-4. Remove the four lock screws from the PC I/F unit and SR unit assemblies. Take out these assemblies.
   - 6-5. Remove the three lock screws from the brackets of the PC I/F unit and SR unit assemblies. Detach the shield.
   - 6-6. Remove the six lock screws from the PC I/F unit. Detach this unit from the bracket.
   - 6-7. Remove the two lock screws from the SR unit. Detach this unit from the bracket.
7. Remove the seven lock screws from the main unit and detach this unit.



8. Remove the AV unit.
   8-1. Remove the coaxial cable from the antenna terminal.
   8-2. Remove the three lock screws from the antenna terminals
   8-3. Remove the six lock screws from the AV unit.
   8-4. Remove the six lock screws from the AV unit and detach this unit.
9. Remove the EMC unit assemblies.
   9-1. Remove the two lock screws from the EMC unit bracket.
   9-2. Remove the two lock screws from the EMC unit and detach this unit.
10. Remove the three lock screws from the power unit and detach this unit.

7.2 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

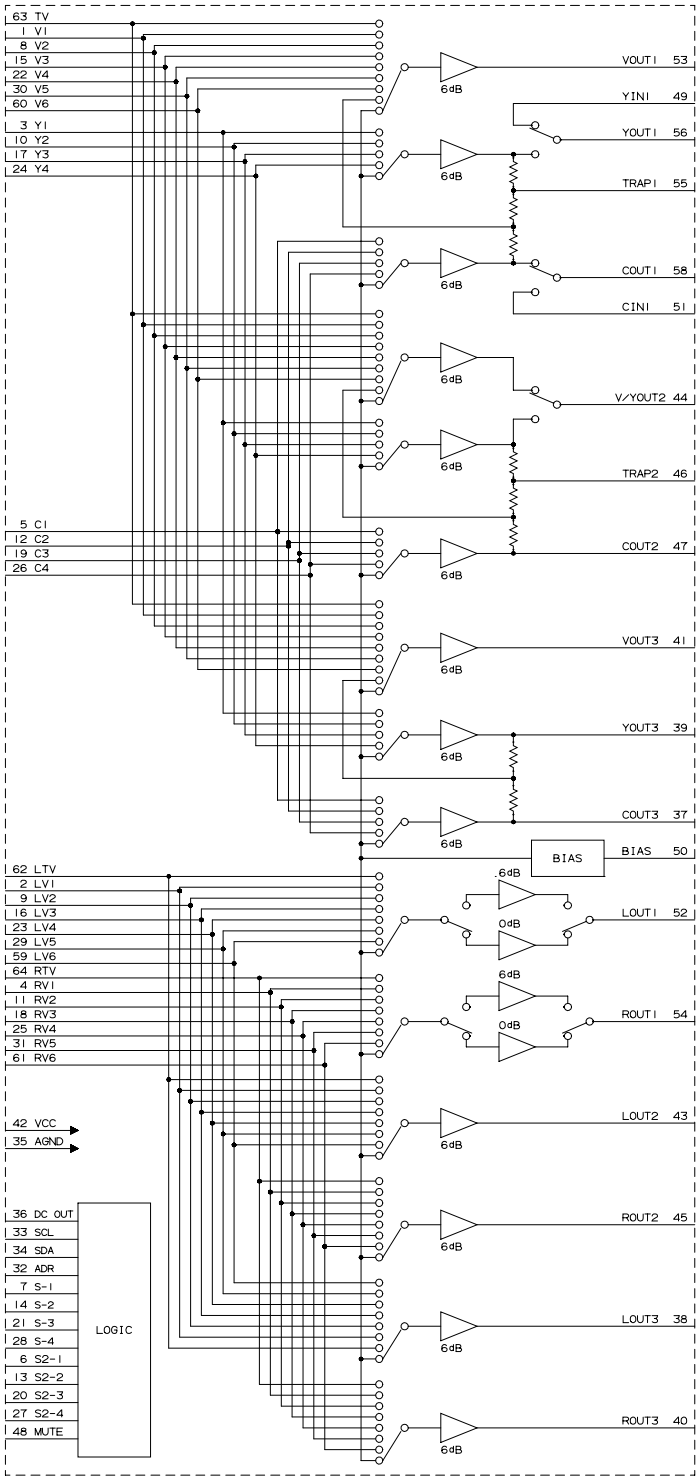
• List of IC

VHiCXA2069Q-1, VHiMM1519XQ-1, RH-iX3370CEN1Q, VHiTB1274AF-1Q, VHiCXA2101Q-1, RH-iXA194WJZZ, VHiTA1318AF-1, VHiPD64082/-1, VHiCXD2093Q-1, RH-iX3473CEZZ, VHiFA3675F/-1, VHiZ86129S+-1Y, VHiZ86230S+-1Y

■VHiCXA2069Q-1 (AV UNIT : IC1301)

• S2-Compatible, 7-Input/3-Ouput AV Switch

• Block Diagram



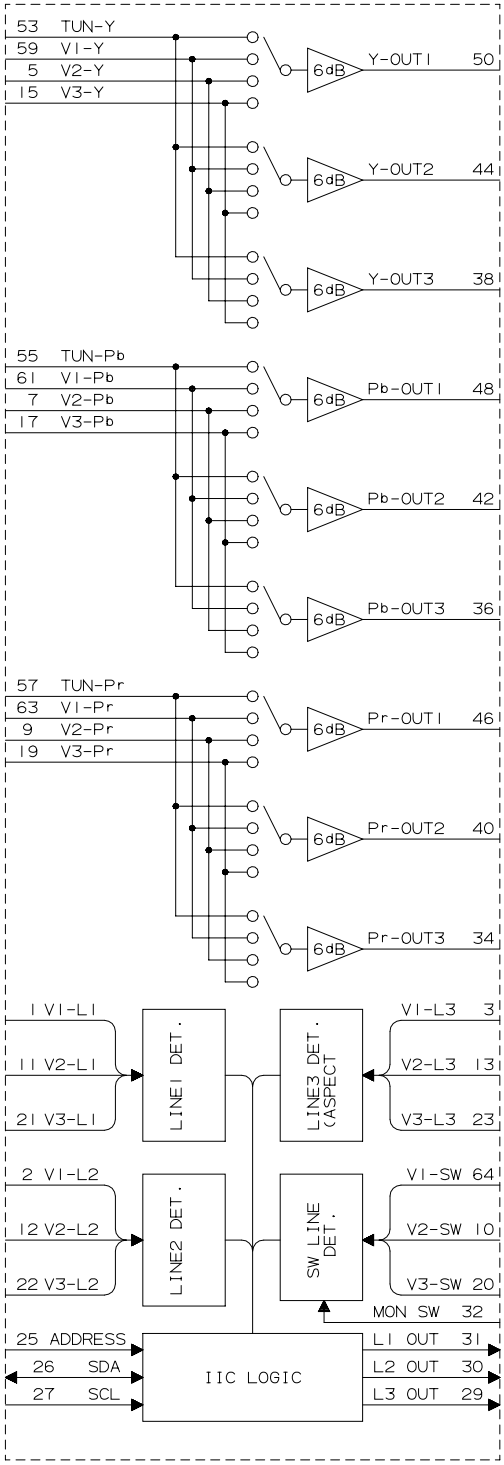
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
63	TV	I	Video signal input.
1	V1	I	Composite video signal input
8	V2	I	
15	V3	I	
22	V4	I	
30	V5	I	
60	V6	I	
3	Y1	I	Y/C-separated signal input terminal for luminance signal input. YIN1 to feed in the Y/C-separated signal of VOUT1 output.
10	Y2	I	
17	Y3	I	
24	Y4	I	
49	YIN1	I	
5	C1	I	Y/C-separated signal input terminal for chrominance signal input. CIN1 to feed in the Y/C-separated signal of VOUT1 output.
12	C2	I	
19	C3	I	
26	C4	I	
51	CIN1	I	
62, 2	LTV, LV1	I	Audio signal input terminal.
9, 16	LV2, LV3	I	
23, 29	LV4, LV5	I	
59, 64	LV6, RTV	I	
4, 11	RV1, RV2	I	
18, 25	RV3, RV4	I	
31, 61	RV5, RV6	I	
53	VOUT1	O	Video signal output terminal for composite video signal output.
41	VOUT3	O	
44	V/YOUT2	O	Video signal output terminal for selection between composite video signal output and luminance signal output by I2C Bus control.
56	YOUT1	O	Video signal output terminal for luminance signal output.
39	YOUT3	O	
58	COUT1	O	Video signal output terminal for chrominance signal output.
47	COUT2	O	
37	COUT3	O	
52	LOUT1	O	Audio signal output terminal.
43	LOUT2	O	
38	LOUT3	O	
54	ROUT1	O	
45	ROUT2	O	
40	ROUT3	O	
6	S2-1	I	Used to detect C signal-superimposed, S2-compatible DC level. 4:3 video signal when below 1.3V. 4:3 letterbox signal when between 1.3V and 2.5V. 16:9 image squeeze signal when above 2.5V. To be pulled down to GDN at 100K to produce 4:3 video signal when open.
13	S2-2	I	
20	S2-3	I	
27	S2-4	I	
7	S-1	I	Used to switch between composite video and S signals. Detection results to be written in status register. S signal when below 3.5V. Composite video signal when above 3.5V. To be pulled up to 5V at 100KΩ to produce composite video signal when open.
14	S-2	I	
21	S-3	I	
28	S-4	I	
32	ADR	I	Used to select I2C Bus slave address. 90H when below 1.5V. 92H when above 2.5V. 90H also when the terminal is open.
33	SCL	I	I2C Bus signal input terminal.
34	SDA	I	I2C Bus signal input terminal.
36	DC OUT	O	Used to feed out S2-compatible DC level to be superimposed on COUT3 output. DC to be superimposed by connecting to COUT3 output via a capacitor. Control to be made by I2C Bus. S2-specified output impedance of 10 ±3K to be realized by adding an external resistance of 4.7KΩ.
55	TRAP1	I	Subcarrier trap circuit to be connected.
46	TRAP2	I	
48	MUTE	I	Audio signal output mute terminal. Mute off when below 1.3V. Mute on when above 2.5V. Mute off when the terminal is open.
50	BIAS	I	Internal reference bias (Vcc/2) terminal. To be connected to GND with a capacitor in between.

■ VHiMM1519XQ-1 (AV UNIT : IC1401)

- **Component Input Video Switch**

- **Block Diagram**



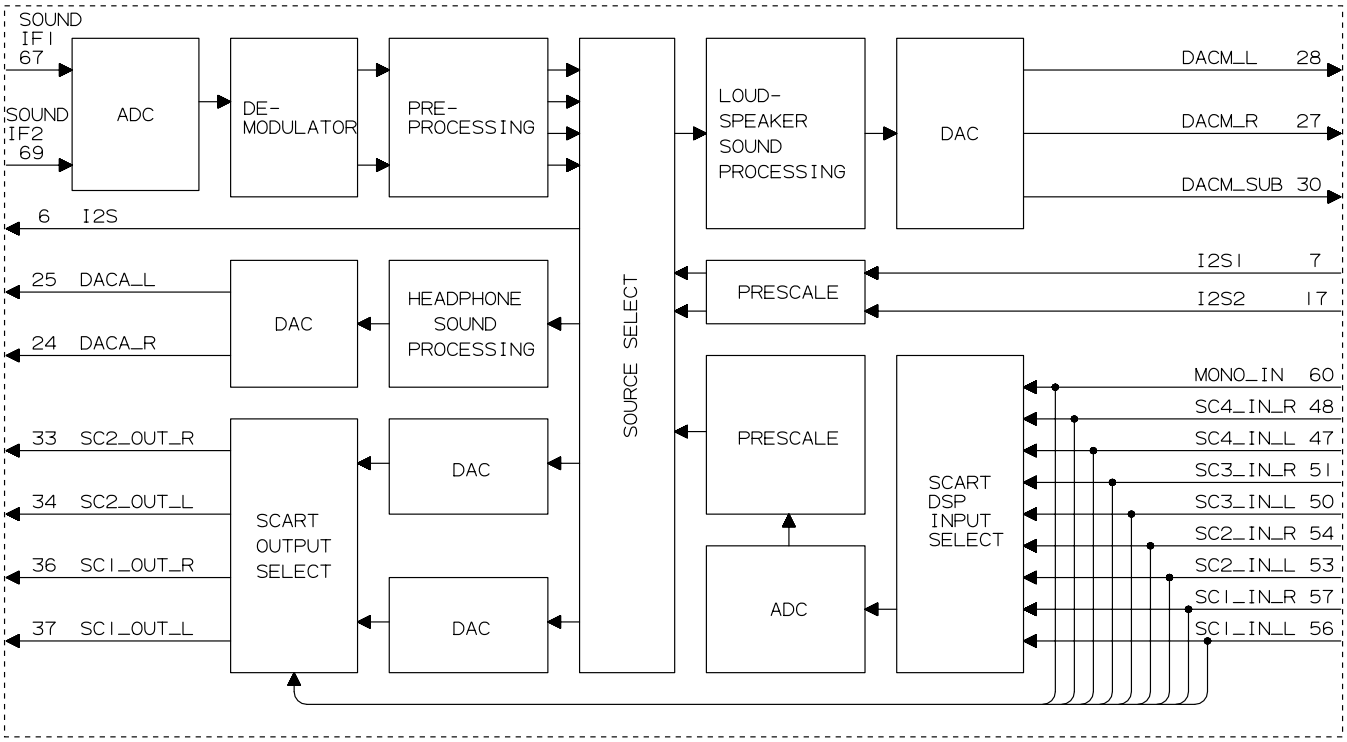
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	VIDEO 1-L1	I	Line input of D-terminal
2	VIDEO 1-L2	I	
3	VIDEO 1-L3	I	
11	VIDEO 2-L1	I	
12	VIDEO 2-L2	I	
13	VIDEO 2-L3	I	
21	VIDEO 3-L1	I	
22	VIDEO 3-L2	I	
23	VIDEO 3-L3	I	
4, 14, 39, 45, 52, 58	VCC	—	Analog power supply (9V)
51	AVCC	—	
5	VIDEO 2-Y	I	Y-signal input
15	VIDEO 3-Y	I	
53	TUNER-Y	I	
59	VIDEO 1-Y	I	
24	DGND	—	GND
6, 8, 16, 18, 33, 35, 37, 41, 43, 47, 49, 54, 56, 60, 62	GND	—	
7	VIDEO 2-Pb	I	Pb, Pr signal input
9	VIDEO 2-Pr	I	
17	VIDEO 3-Pb	I	
19	VIDEO 3-Pr	I	
55	TUNER-Pb	I	
57	TUNER-Pr	I	
61	VIDEO 1-Pb	I	
63	VIDEO 1-Pr	I	
10	VIDEO 2-SW	I	Switch line of D-terminal
20	VIDEO 3-SW	I	
32	MONO-SW	I	
64	VIDEO 1-SW	I	
25	ADDRESS	I	Slave address select pin
26	SDA	I/O	Data input of I2C bus
27	SCL	I	Clock input of I2C bus
28	DVCC	—	Digital power supply (5V)
29	L3 OUT	O	Line output for monitor
30	L2 OUT	O	
31	L1 OUT	O	
34	Pr OUT 3	O	Video signal output
36	Pb OUT 3	O	
38	Y OUT 3	O	
40	Pr OUT 2	O	
42	Pb OUT 2	O	
44	Y OUT 2	O	
46	Pr OUT 1	O	
48	Pb OUT 1	O	
50	Y OUT 1	O	

■ RH-iX3370CEN1 (AV UNIT : IC2501)

- **Multi Standard Sound Processor**

- **Block Diagram**

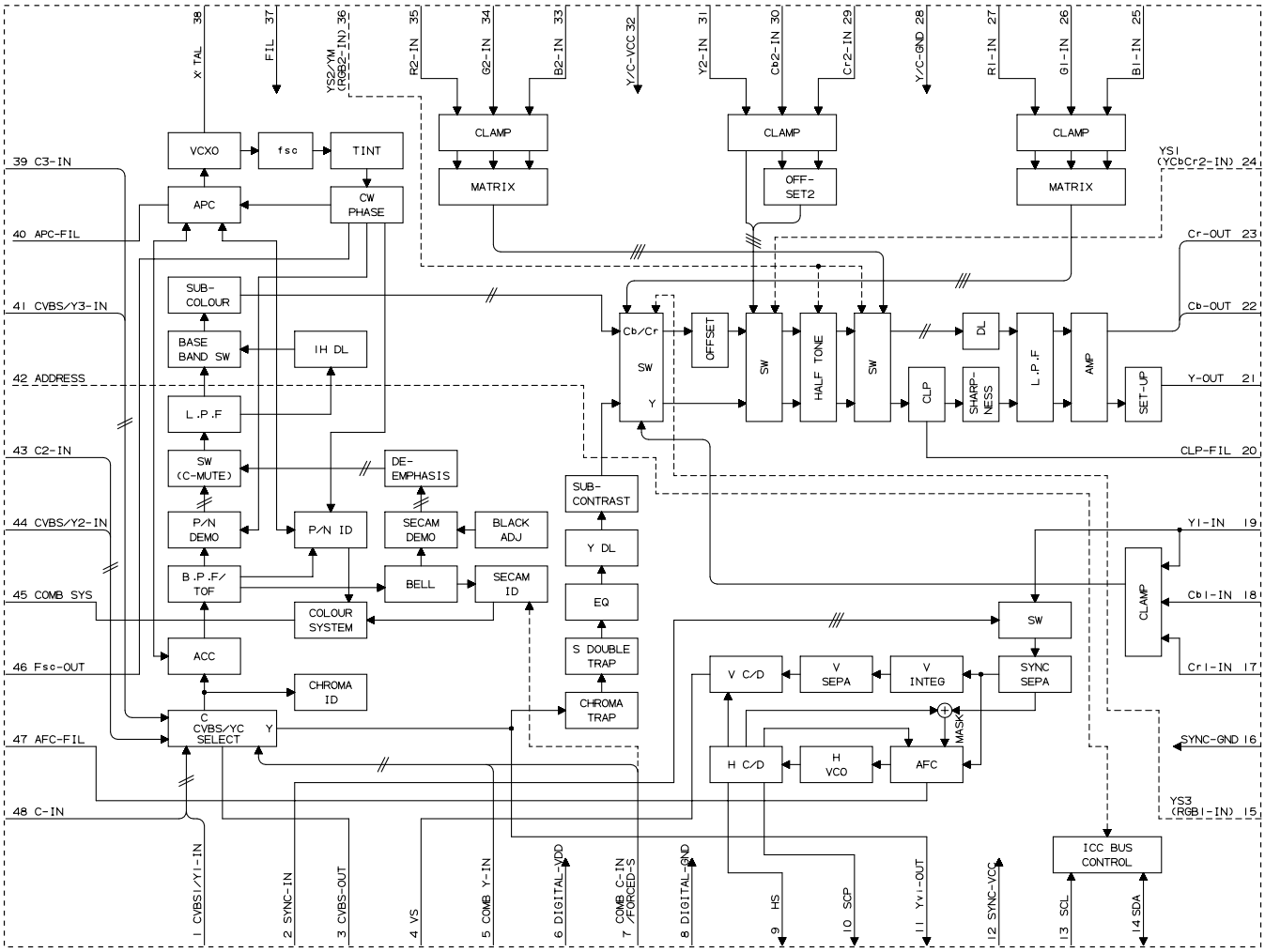


• **Pin Function**

Pin No.	Pin Name	I/O	Pin Function
1	NC	—	Not connected
2	I2C_CL	I/O	I2C clock
3	I2C_DA	I/O	I2C data
4	I2S_CL	I/O	I2S clock
5	I2S_WS	I/O	I2S word strobe
6	I2S_DA_OUT	O	I2S data output
7	I2S_DA_IN1	I	I2S1 data input
8	ADR_DA	O	ADR data output
9	ADR_WS	O	ADR word strobe
10	ADR_CL	O	ADR clock
11, 12, 13	DVSUP	—	Digital power supply 5V
14, 15, 16	DVSS	—	Digital ground
17	I2S_DA_IN2	I	I2S2-data input
18, 19, 20	NC	—	Not connected
21	RESETQ	I	Power-on-reset
22, 23	NC	—	Not connected
24	DACA_R	O	Headphone out, right
25	DACA_L	O	Headphone out, left
26	VREF2	—	Reference ground 2
27	DACM_R	O	Loudspeaker out, right
28	DACM_L	O	Loudspeaker out, left
29	NC	—	Not connected
30	DACM_SUB	O	Subwoofer output
31, 32	NC	—	Not connected
33	SC2_OUT_R	O	SCART 2 output, right
34	SC2_OUT_L	O	SCART 2 output, left
35	VREF1	—	Reference ground 1
36	SC1_OUT_R	O	SCART 1 output, right
37	SC1_OUT_L	O	SCART 1 output, left
38	CAPL_A	—	Volume capacitor AUX
39	AHVSUP	—	Analog power supply 8V
40	CAPL_M	—	Volume capacitor MAIN
41, 42	NC	—	Not connected
43, 44	AHVSS	—	Analog ground
45	AGNDC	—	Analog reference voltage
46	NC	—	Not connected
47	SC4_IN_L	I	SCART 4 input, left
48	SC4_IN_R	I	SCART 4 input, right
49	ASG4	—	Analog Shield Ground 4
50	SC3_IN_L	I	SCART 3 input, left
51	SC3_IN_R	I	SCART 3 input, right
52	ASG2	—	Analog Shield Ground 2
53	SC2_IN_L	I	SCART 2 input, left
54	SC2_IN_R	I	SCART 2 input, right
55	ASG1	—	Analog Shield Ground 1
56	SC1_IN_L	I	SCART 1 input, left
57	SC1_IN_R	I	SCART 1 input, right
58	VREFTOP	—	Reference voltage IF A/D converter
59	NC	—	Not connected
60	MONO_IN	I	Mono input
61, 62	AVSS	—	Analog ground
63, 64	NC	—	Not connected
65, 66	AVSUP	—	Analog power supply 5V
67	ANA_IN1+	I	IF input 1
68	ANA_IN-	I	IF common(can be left vacant, only if IF input 1 is also not in use)
69	ANA_IN2+	I	IF input 2(can be left vacant, only if IF input 1 is also not in use)
70	TESTEN	I	Test pin
71	XTAL_IN	I	Crystal oscillator
72	XTAL_OUT	O	
73	TP	—	Test pin
74	AUD_CL_OUT	O	Audio clock output (18.432MHz)
75, 76	NC	—	Not connected
77	D_CTR_I/O_1	I/O	D_CTR_I/O_1
78	D_CTR_I/O_0	I/O	D_CTR_I/O_0
79	ADR_SEL	I	I2C Bus address select
80	STANDBYQ	I	Stand-by (low-active)

■ VHiTB1274AF-1Q (MAIN UNIT : IC801, IC802)

- **VIDEO/CHROMA Processor**
- **Block Diagram**



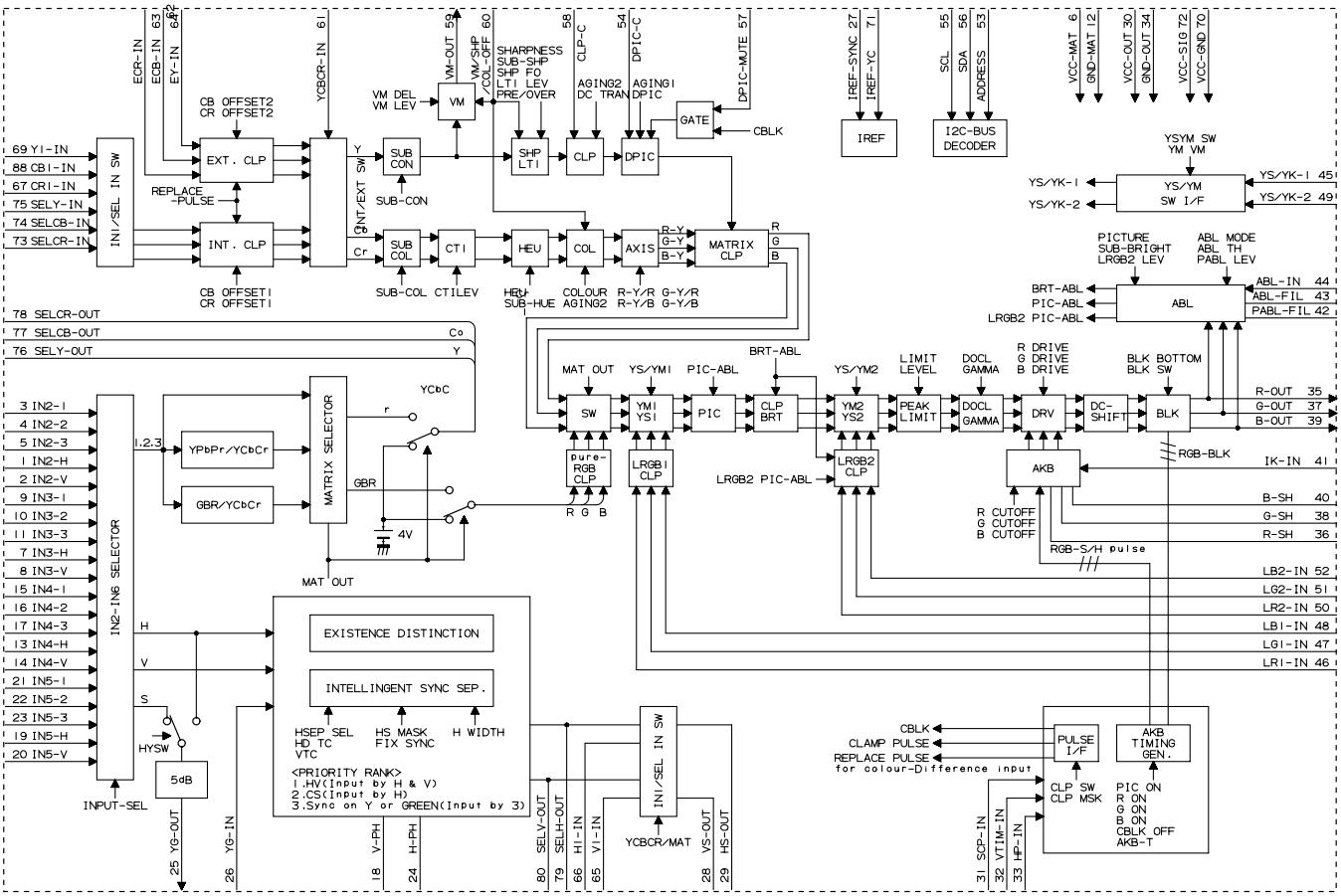
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	CVBS1/Y1-IN	I	CVBS1 or Y1-IN signal input.
2	SYNC-IN	I	Sync signal input.
3	CVBS-OUT	O	CVBS or Y+C signal output terminal.
4	VS	O	Counted-down vertical sync signal output.
5	COMB Y-IN	I	Input of Y signal coming from comb filter. Open when not used.
6	D-VDD	—	DDS/BUS/V-CD/H-CD block power supply. DC5V (standard).
7	COMB C-IN	I	Input of C signal coming from comb filter. Open when not used.
8	D-GND	—	DDS/BUS/V-CD/H-CD block grounding terminal.
9	HS	O	H-AFC-processed horizontal sync signal output.
10	SCP	O	Sand Castle Pulse output. Clamping pulse and horizontal blanking pulse outputs.
11	Yvi-IN	O	Output of sync input Y signal selected with Video-SW.
12	SYNC-VCC	—	SYNC/HVCO block power supply. DC5V (standard).
13	SCL	I	I2C BUS SCL terminal.
14	SDA	I/O	I2C BUS SDA terminal.
15	YS3 (RGB1-in)	I	Selector switch for main signal and RGB1 input signal. YS3 input effective only when "RGB1-ENB" is set at "enable" in bus setting.
16	SYNC-GND	—	SYNC/HVCO block grounding terminal.
17	Cr1-IN	I	Y1/Cb1/Cr1 signal input.
18	Cb1-IN	I	
19	Y1-IN	I	
20	CLP-FIL	—	Y clamp filter to be connected.
21	Y-OUT	O	Y/Cb/Cr signal output.
22	Cb-OUT	O	
23	Cr-OUT	O	
24	YS1 (YVbC2-IN)	I	Selector switch for main signal and Y/Cr/Cb2 input signal.
25	B1-IN	I	RGB1 signal input. This input is selected at YS3 or I2C BUS.
26	G1-IN	I	
27	R1-IN	I	
28	Y/C-GND	—	Y/C/Text/Video-SW/1HDL block grounding terminal.
29	Cr2-IN	I	Y2/Cb2/Cr2 signal input. This input is selected at YS1. Open when not used.
30	Cb2-IN	I	
31	Y2-IN	I	
32	Y/C-VCC	—	Y/C/Text/Video-SW/1HDL block power supply. DC5V (standard)
33	B2-IN	I	RGB2 signal input. This input is selected at YS2. Open when not used.
34	G2-IN	I	
35	R2-IN	I	
36	YS2/YM (RGB2-IN)	I	Selector switch for main signal and RGB2 input signal.
37	FIL.	—	Connected to Y/C-VCC terminal.
38	X'TAL	—	16.2MHz crystal oscillator to be connected.
39	C3-IN	I	Chroma signal input. Open when not used.
40	APC-FIL	—	Chroma demodulation filter to be connected.
41	CVBS3/Y3-IN	I	CVBS3 or Y3 signal input. Open when not used.
42	ADDRESS	I	Slave address to be preset.
43	C2-IN	I	Chroma signal input. Open when not used.
44	CVBS2/Y2-IN	I	CVBS2 or Y2 signal input. Open when not used.
45	COMB SYS	O	Received color system judgment result to be output from this pin and pin 46.
46	Fsc-OUT	O	Subcarrier output.
47	AFC-FIL	—	AFC detection filter to be connected.
48	C1-IN	I	Chroma signal input. Open when not used.

■ VHICXA2101Q-1 (MAIN UNIT : IC803)

• Baseband Video Signal Processor

• Block Diagram



• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	IN2-H	I	IN2-H : Independent horizontal sync signal input terminal.
2	IN2-V	I	IN2-V : Independent vertical sync signal input terminal.
3	IN2-1	I	IN2 line signal input terminal.
4	IN2-2	I	
5	IN2-3	I	
6	Vcc-MAT	—	Selector line and sync processor line power terminal.
7	IN3-H	I	IN3-H : Independent horizontal sync signal input terminal.
8	IN3-V	I	IN3-V : Independent vertical sync signal input terminal.
9	IN3-1	I	IN3 line signal input terminal.
10	IN3-2	I	
11	IN3-3	I	
12	GND-MAT	—	Selector line and sync processor line grounding terminal.
13	IN4-H	I	IN4-H : Independent horizontal sync signal input terminal.
14	IN4-V	I	IN4-V : Independent vertical sync signal input terminal.
15	IN4-1	I	IN4 line signal input terminal.
16	IN4-2	I	
17	IN4-3	I	

Pin No.	Pin Name	I/O	Pin Function
18	V-PH		Vsync peak holding capacitor connection terminal.
19	IN5-H	I	IN5-H : Independent horizontal sync signal input terminal.
20	IN5-V	I	IN5-V : Independent vertical sync signal input terminal.
21	IN5-1	I	IN5 line signal input terminal.
22	IN5-2	I	
23	IN5-3	I	
24	H-PH		Hsync peak holding capacitor connection terminal.
25	YG-OUT	O	Sync separation composite video signal output terminal.
26	YG-IN	I	Sync separation composite video signal input terminal.
27	IREF-SYNC		Reference current setting terminal (about 4.6V)
28	VS-OUT	O	Used to select between IN1-line HV and IN2/IN5-line selector output HV by I2C BUS "YCBCR/MAT" and feed out the signal in positive polarity.
29	HS-OUT	O	
30	Vcc-OUT	O	RGB line power terminal.
31	SCP-IN	I	Sand-Castle-Pulse input terminal.
32	VTIM-IN	I	V timing pulse input terminal.
33	HP-IN	I	H pulse input terminal.
34	GND-OUT	O	RGB line grounding terminal.
35	R-OUT	O	RGB signal output terminal.
37	G-OUT	O	Output to be made at 2.6Vp-p with 100IRE white input.
39	B-OUT	O	
36	R-SH		RGB AKB sample-and-hold terminal.
38	G-SH		
40	B-SH		
41	IK-IN	I	Reference pulse to return to this terminal.
42	PABL-FIL		Peak ABL peak holding terminal.
43	ABL-FIL		Used to form LPF for ABL control signal.
44	ABL-IN		ABL control signal input terminal.
45	YS/YM-1		YM1/YS1 control input terminal. Input level to be of 3 values. VM turning-off function also available when YM and YS have reached their specified values.
46	LR1-IN	I	Analog RGB1 signal input terminal.
47	LG1-IN	I	
48	LB1-IN	I	
49	YS/YM-2	I	YM2/YS2 control input terminal. Input level to be of 3 values. VM turning-off function also available when YM and YS have reached their specified values.
50	LR2-IN	I	Analog RGB2 signal input terminal.
51	LG2-IN	I	
52	LB2-IN	I	
53	ADDRESS	I	I2C BUS slave address setting terminal.
54	DPIC-C	I	Capacitor to be connected for grounding in order to detect the black signal in dynamic picture (black stretching).
55	SCL	I	I2C BUS standard SCL (Serial Clock) input terminal.
56	SDA	I	I2C BUS standard SDA (Serial Data) input terminal.
57	DPIC-MUTE		Used to control MUTE of dynamic picture (black stretching).
58	CLP-C	O	Y line clamp capacitor connection terminal.
59	VM-OUT		VM output terminal to feed out Y signal's differential waveform in positive polarity.
60	VM/SHP/COL-OFF	I	Used to turn off VMÅASHARPNESS and COLOUR. Input level to be 3 values
61	YCBCR-SW	I	Used to switch between INT and EXT SW input signals. External input terminal to be selected at High level.
62	ECR-IN	I	External Y, Cb, and Cr input terminals.
63	ECB-IN	I	
64	EY-IN	I	
65	V1-IN	I	IN1-line HV input terminal. Positive-polarity input.
66	H1-IN	I	
67	CR1-IN	I	IN1-line Y, Cb, and Cr input terminals.
68	CB1-IN	I	
69	Y1-IN	—	
70	GND-SIG		Y color difference signal processor grounding terminal.
71	IREF-YC	—	Reference current setting terminal (mainly for Y color difference signal processing line).
72	Vcc-SIG	I	Y color difference signal processor power terminal.
73	SELCR-IN	I	Used to feed in selector outputs Y, Cb, and Cr through clamp capacitor.
74	SELCB-IN	I	
75	SELY-IN	O	
76	SELY-OUT	O	IN2- thru IN5-line selector output terminals.
77	SELCB-OUT	O	Used to feed out Y-, Cb-, and Cr-converted signals.
78	SELCR-OUT	O	
79	SELH-OUT	O	IN2 thru IN5 selector HV output terminals.
80	SELV-OUT		

■ RH-iXA194WJZZ (MAIN UNIT : IC1901)

• PLD (Programmable Logic Device)

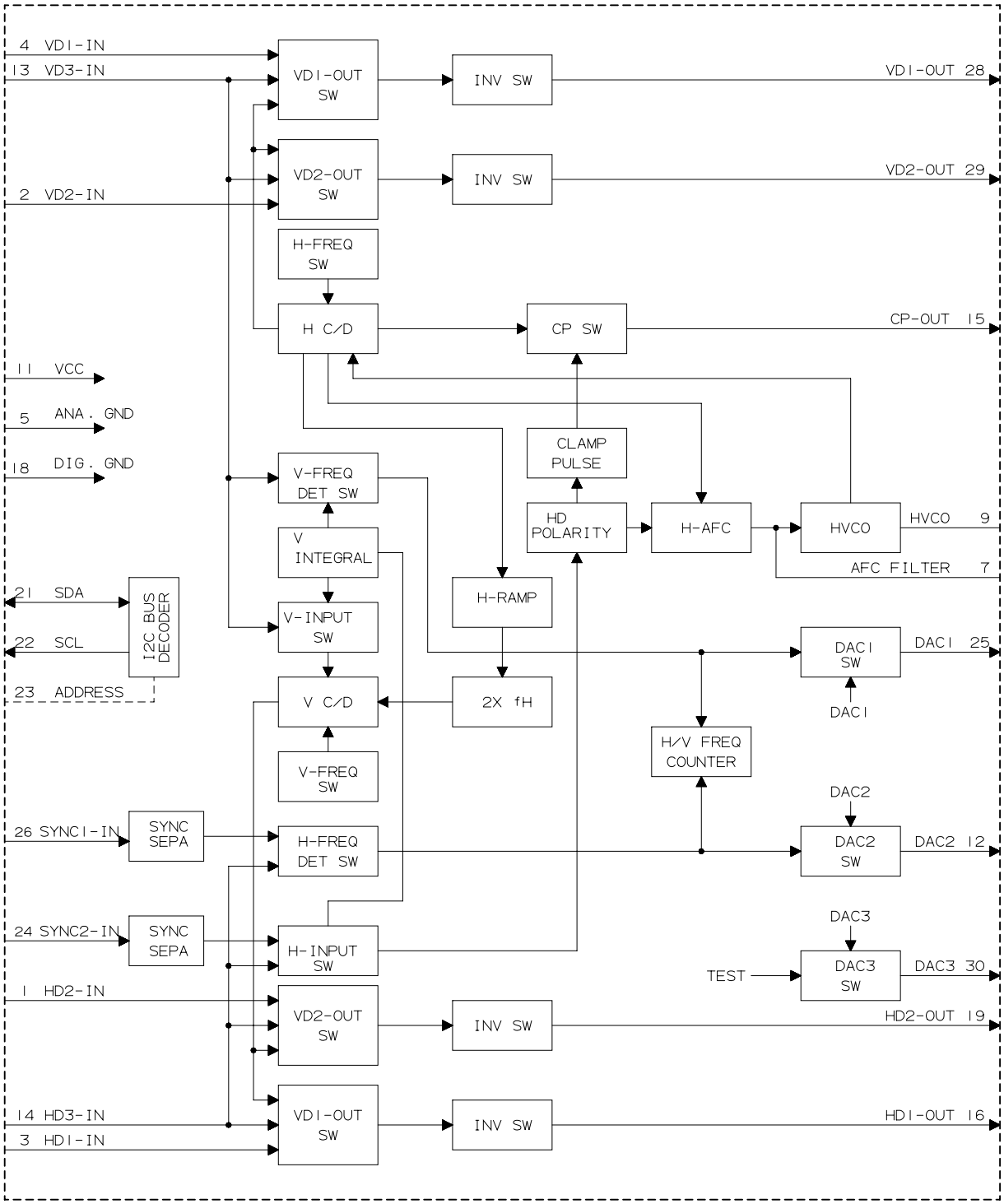
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	TDI	I/O	
2	VD1	I/O	
3	SP_HD	I/O	
4	GND	—	Ground
5	SP_VD	I/O	
6	SP_CP	I/O	
7	TMS	I/O	
8	HD3	I/O	
9	VCC	—	Power supply (3.3V)
10	VD3	I/O	
11	GND	—	Ground
12	MODEA	I/O	
13	MODEB	I/O	
14	MODEC	I/O	
15	SELA	I/O	
16	GND	—	Ground
17	VCC	—	Power supply (3.3V)
18	SELO	I/O	
19	HD2	I/O	
20	VD2	I/O	
21	HDS	I/O	
22	VDS	I/O	
23	US_VD	I/O	
24	GND	—	Ground
25	US_HD	I/O	
26	TCK	I/O	
27	TEXT_VD	I/O	
28	TEXT_HD	I/O	
29	VCC	—	Power supply (3.3V)
30	GND	—	Ground
31	PL_BLK	I/O	
32	TDO	I/O	
33	PLCP	I/O	
34	PL_HD	I/O	
35	PL_VD	I/O	
36	GND	—	Ground
37	GCLK1	I	External clock input. 16MHz
38	OE1	I	
39	GCLRn	I	
40	OE2/GCLK2	I	
41	VCC	—	Power supply (3.3V)
42	CNR_CP	I/O	
43	CNR_HBLK	I/O	
44	HD1	I/O	

■ VHiTA1318AF-1 (MAIN UNIT : IC604)

- **Sync Processor**

- **Block Diagram**

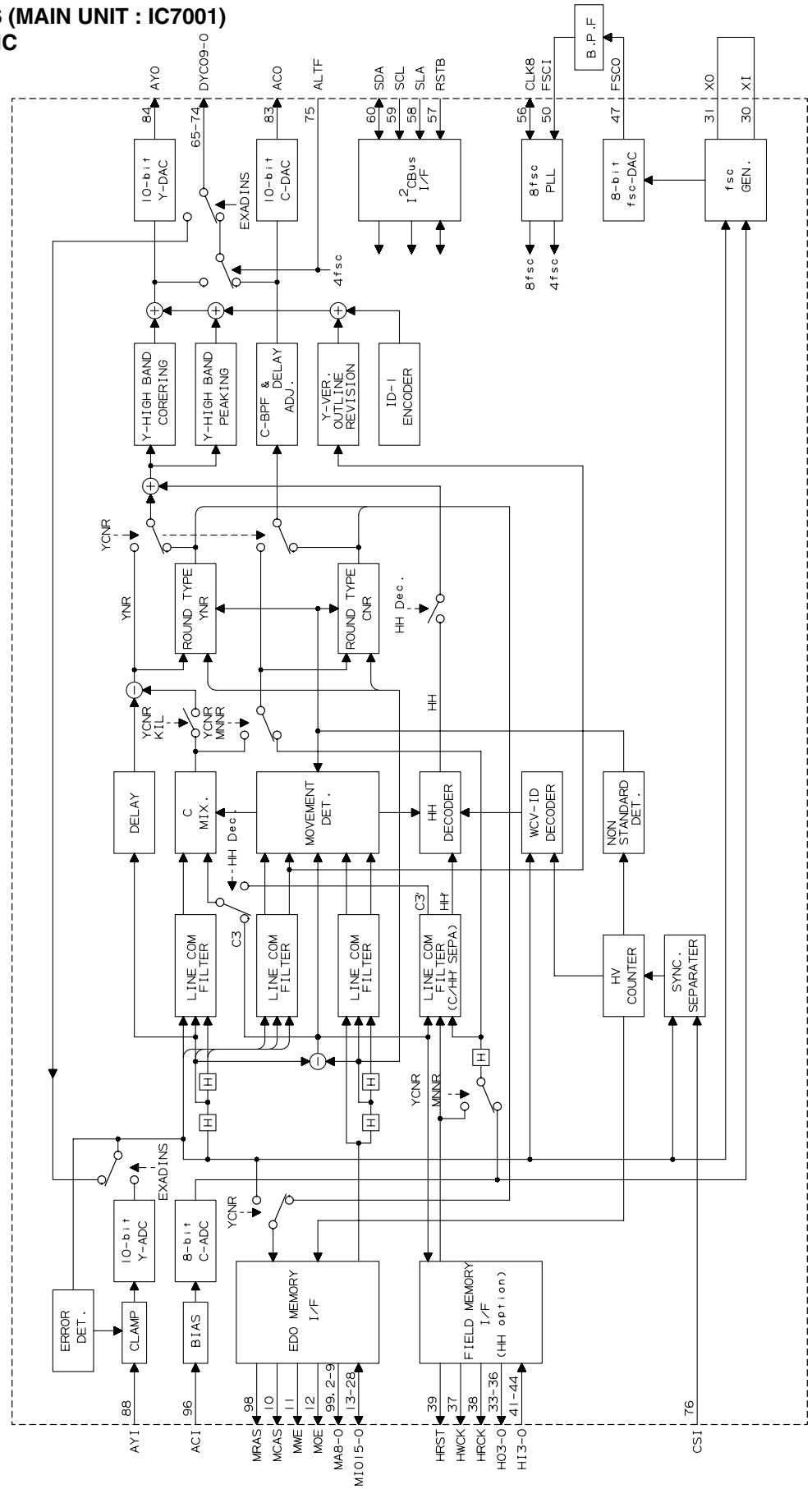


• Pin Function

Pin No.	Pin Name	I/O	Pin Function
3	HD1-IN	I	Input the horizontal synchronizing signal.
1	HD2-IN	I	It's polarity corresponds to both positive and negative.
11	HD3-IN	I	Input from this pin does not be synchronized internally.
4	VD1-IN	I	Input the horizontal vertical signal.
2	VD2-IN	I	It's polarity corresponds to both positive and negative.
10	VD3-IN	I	Input from this pin does not be synchronized internally.
5	ANALOG GND	—	The GND pin for analog circuit block.
6	AFC FILTER	—	Connect the filter for horizontal AFC. The frequency of the horizontal output is varied by the volyage at this pin.
7	HVCO	—	Connect the ceramic oscillator for horizontal oscillator.
8	VCC	—	The VCC pin. (9.0V)
20	DAC1 (V. SYNC output)	O	DAC1 output pin. When TEST mode, VD or vertical sync signal to frequency counter circuit is output.
9	DAC2 (H/C. SYNC output)	O	DAC2 output pin. When TEST mode, HD or composite sync signal to frequency counter circuit is output.
24	DAC3	O	DAC3 output pin. This pin is open-collector system. When TEST mode, test pilses for the shipping is output.
12	CP-OUT	O	Clamp pulse output pin. CP mode at synchronization circuit is output.
13	HD1-OUT	O	HD output pin. This pin is open-collector system.
15	HD2-OUT	O	HD1/HD2 does not be synchronizing and they are output from this pin. It's polarity is switched by BUS write function.
14	DIGITAL GND	—	The GND pin for logic circuit block.
16	SDA	I/O	The SDA pin for I"C BUS.
17	SCL	I	The SCL pin for I"C BUS.
18	ADDRESS SW	I	Slave address switch.
21	SYNC1-IN	I	Input a signal to separate sync signal.
19	SYNC2-IN	I	
22	VD1-OUT	O	VD output pin. This pin is open-collector system.
23	VD2-OUT	O	VD1/VD2 does not be synchronizing and they are output from this pin. It's polarity is switched by BUS write function.

■ VHiPD64082/-1S (MAIN UNIT : IC7001)

- **Y/C Separate IC**
- **Block Diagram**



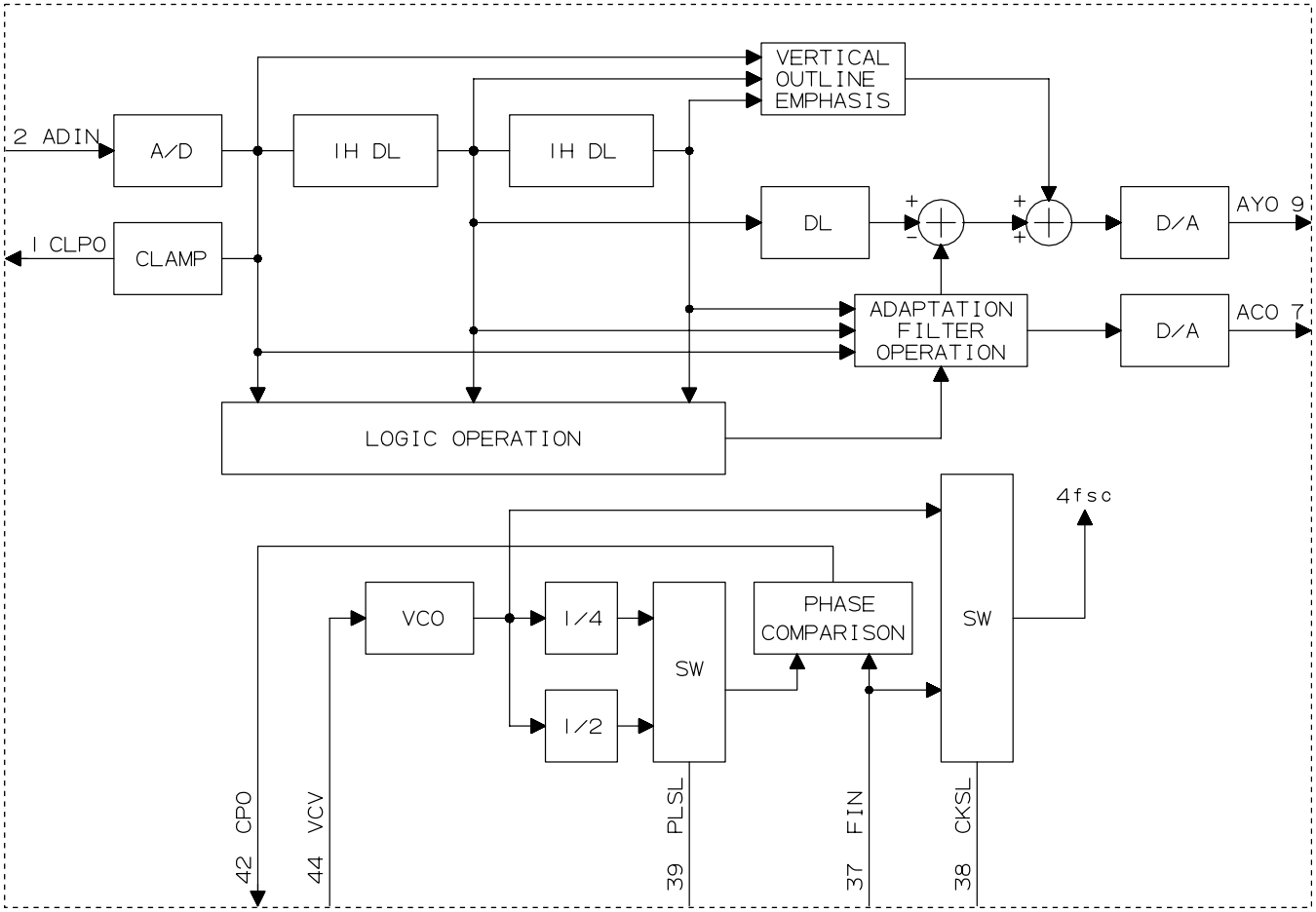
• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1, 40, 55, 80	DGND	—	Digital section grounding.
45, 64, 100	DVDD	—	Digital section power.
98	MRAS	O	External EDO memory RAS output.
99	MA8	O	External EDO memory address output.
2-9	MA7-MA0	O	External EDO memory address output.
10	MCAS	O	External EDO memory CAS output.
11	MWE	O	External EDO memory WE output.
12	MOE	O	External EDO memory OE output.
13-28	MIO15-MIO0	I/O	External EDO memory data input/output.
29	DGND	—	fsc generator digital section grounding.
30	XI	I	fsc generator reference clock input.
31	XO	O	fsc generator reference clock reverse output.
32	DVDD	—	fsc generator digital section power.
33-36	HO3-HO0	O	External field memory data output.
37	HWCK	O	External field memory write clock output.
38	HRCK	O	External field memory read clock output.
39	HRST	O	External field memory reset signal output.
41-44	HI3-HI0	I	External field memory input.
46	AVDD	—	fsc generator DAC power.
47	FSCO	—	fsc generator fsc output.
48	AGND	—	fsc generator DAC grounding.
49	AGND	—	8fsc-PLL grounding.
50	FSCI	—	8fsc-PLL fsc input.
51	CPLL	—	8fsc-PLL filter output.
52	RPLL	I	Test input.
53	AVDD	—	8fsc-PLL power.
54	CKMD	I	CLK8 test mode select (L: Usual, H: Test mode).
56	CLK8	O/I	8fsc clock output (8fsc clock input at CLK8 test mode).
57	RSTB	I	System reset input (Active Low).
58	SLA0	I	(Active-Low reset pulse input from outside) PC bus slave address select input (L: B8/B9h, H: BA/BBh).
59	SCL	I	PC bus clock input (To be connected to system's SCL line).
60	SDA	I/O	PC bus clock input/output (To be connected to system's SDA line).
61	ST0	O	nternal signal monitor output.
62	ST1	O	Internal signal monitor output.
63	NSTD	O	Non-standard detection monitor output. (L: Judged standard, H: Judged non-standard)
65-74	DYCO0-DYCO9	I/O	EXADINS=0: Digital Y/C signal alternate output. EXADINS=1: External Y-ADC data input. (Non-used lower bits to be connected to GND with resistor in between)
75	ALTF	O	EXADINS=0: Digital Y/C signal alternate flag output (L: Y, H: C). EXADINS=1: External Y-ADC 4fsc clock output.
76	CSI	I	Composite sync input (Active Low).
77	TEST	I	IC select test terminal (L: Usual operation, H: Test mode). (Connected to GND)
78	LINE	I	Forced line-to-line process select input (L: Usual operation, H: Forced line-to-line processing).
79	KIL	I	External killer input (L: Usual operation, H: Forced Y/C separation stop).
81	AVDD	—	Y-DAC, C-DAC power.
82	CBPC	O	C-DAC phase compensation output.
83	ACO	O	C-DAC analog C signal output.
84	AYO	O	Y-DAC analog Y signal output.
85	CBPY	O	Y-DAC phase compensation output.
86	AGND	—	Y-DAC, C-DAC grounding.
87	AGND	—	Y-ADC grounding.
88	AYI	I	Y-ADC analog composite signal/Y signal input.
89	VCLY	O	Y-ADC clamp potential output.
90	VRBY	O	Y-ADC bottom reference voltage output.
91	VRTY	O	Y-ADC top reference voltage output.
92	AVDD	—	Y-ADC power.
93	AVDD	—	C-ADC power.
94	VRTC	O	C-ADC top reference voltage output.
95	VRBC	O	C-ADC bottom reference voltage output.
96	ACI	I	C-ADC analog C signal input.
97	AGND	—	C-ADC grounding.

■ VHiCXD2093Q-1 (MAIN UNIT : IC402)

- **Digital Comb Filter**

- **Block Diagram**



• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	CLPO	O	Built-in clamp circuit current output terminal. To be connected to ADIN when built-in clamp is used.
2	ADIN	I	Comb filter analog input (A/D converter) terminal.
3	RB	O	A/D converter reference bottom voltage. (standard 0.52V)
4	ADVS	—	A/D converter analog grounding terminal.
5	ADVD	—	A/D converter analog power terminal. (5.0V)
6	RT	O	A/D converter reference top voltage. (standard 2.6V)
7	ACO	O	Analog chroma signal output terminal. Resistance to be added between this pin and GND (DAVS) for obtaining the output.
8	DAVD	—	D/A converter analog power terminal. (5.0V)
9	AYO	O	Analog luminance signal output terminal. Resistance to be added between this pin and GND (DAVS) for obtaining the output.
10	DAVS	—	D/A converter analog grounding terminal.
11	VG	O	D/A converter terminal.
12	VRF	I	Y,C ch D/A converter output full-scale setting terminal.
13	IRF	O	x16 resistance to be connected against D/A converter output resistance “R”.
14	VB	O	D/A converter terminal.
15, 28	TEST	I	Test terminal. Usually fixed at Low.
32, 33, 35,	TEST	I	Test terminal. Usually open or fixed at Low.
16, 27, 34	DVDD	—	Digital power terminal. (5.0V)
18,23-26,29,36	DVSS	—	Digital grounding terminal.
17	MOD2	I	Y/C separation mode setting terminal. MOD2 MOD1 L L Most suitable process H L BPF separation mode
19	MOD1	I	
20	VEH3	I	Vertical contour enhancement setting terminal. VEH3 VEH2 VEH1: Presettable in 8 steps from LLL(Off) to HHH(Max).
21	VEH2	I	
22	VEH1	I	
30	APCN	I	Horizontal aperture correction circuit setting terminal. L: off, H: on
31	TRAP	I	Trap filter circuit setting terminal. L: off, H: on
37	FIN	I	Clock input terminal. Burst lock (4fsc) to be fed in with built-in PLL system. Burst-locked 4fsc signal to be fed in when PLL is not used.
38	CKSL	I	PLL control terminal. L : PLL not used. FIN input clock (4fsc) to be fed in. H : PLL used. VCO oscillator output’s 4fsc clock to be fed in.
39	PLSL	I	FIN input fsc to be selected. L: fsc input, H: 2fsc input. Either at L or H when 4fsc is fed in PLL (without built-in PLL).
40	MCKO	O	Clock (4fsc) output terminal.
41	ADCK	I	A/D converter clock input terminal. To be connected to MCKO.
42	CPO	O	PLL phase comparator output terminal. Open when PLL is not used.
43	PLVS	—	PLL analog grounding terminal.
44	VCV	I	VCO control voltage input terminal. To be connected to PLVS when PLL is not used.
45	PLVD	—	PLL analog power terminal. (5.0V)
46	CLVD	—	Clamp D/A converter analog power terminal. (5.0V)
47	CLPEN	I	Clamp circuit enable terminal. L: Clamp on, H: Clamp off
48	CLVS	—	Clamp D/A converter analog grounding terminal.

■ **RH-iX3473CEZZ (ASSY: IC804, IC810)**

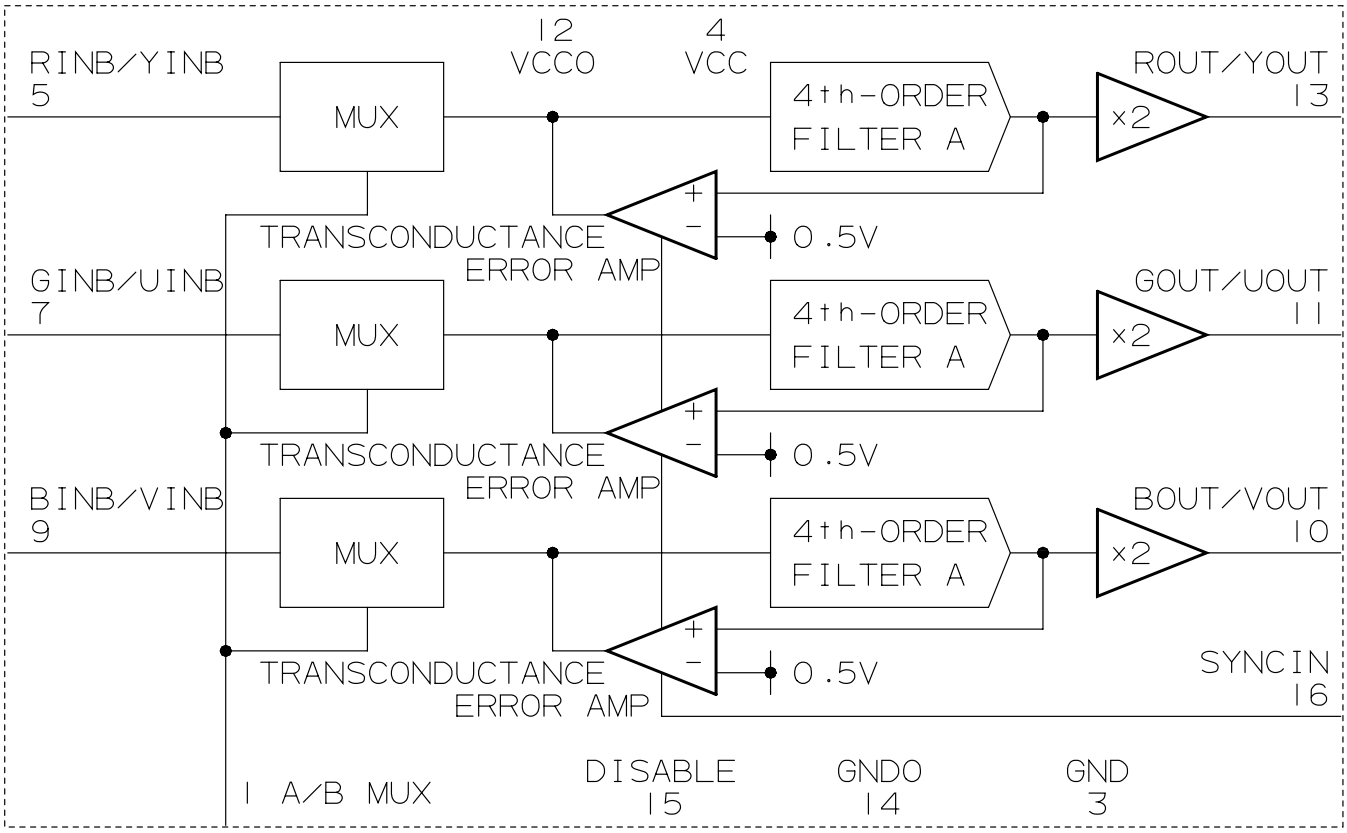
■ **RH-iX3474CEZZ (ASSY: IC811)**

- **Monolithic Video Filter**

* RH-iX3473CEZZ is 6.7MHz at Cut-off frequency.

* RH-iX3474CEZZ is 30MHz at Cut-off frequency.

- **Block Diagram**



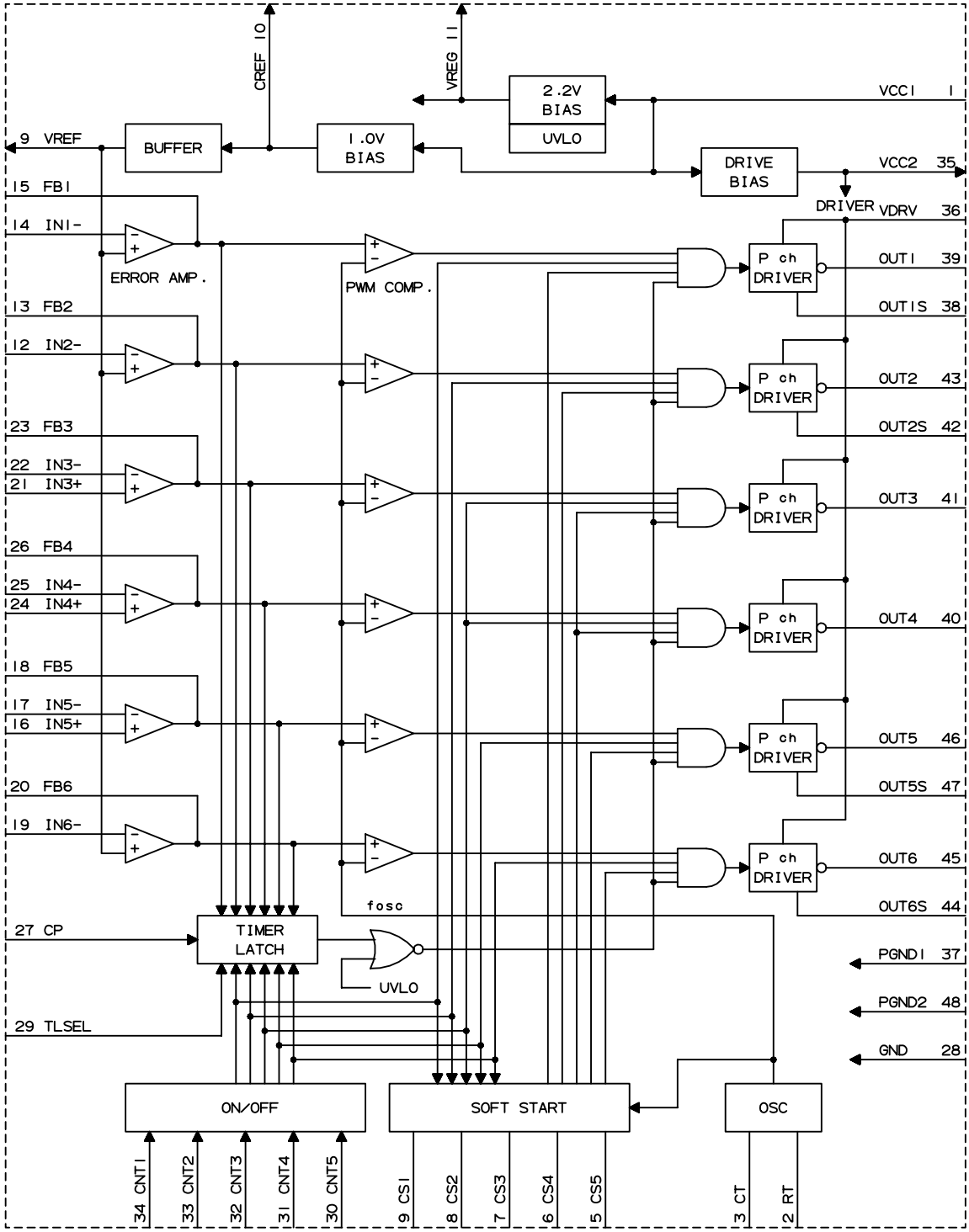
- **Pin Function**

Pin No.	Pin Name	I/O	Pin Function
1	A/B MUX	—	Logic input pin to select between Bank <A> and Bank <B> video inputs. This pin is internally pulled high.
2	RINA/YINA	I	Unfiltered analog R- or Y-channel input for Bank <A>, Sync must be provided at SYNC IN pin.
3	GND	—	Analog ground.
4	VCC	—	Analog 5V supply.
5	RINB/YINB	I	Unfiltered analog R or Y-channel input for Bank <B>, Sync must be provided at SYNC IN pin.
6	GINA/UINA	I	Unfiltered analog G or U-channel input for Bank <A>, Sync must be provided at SYNC IN pin.
7	GINB/UINB	I	Unfiltered analog G or U-channel input for Bank <B>, Sync must be provided at SYNC IN pin.
8	BINA/VINA	I	Unfiltered analog B or V-channel input for Bank <A>, Sync must be provided at SYNC IN pin.
9	BINB/VINB	I	Unfiltered analog B or V-channel input for Bank <B>, Sync must be provided at SYNC IN pin.
10	BOUT	O	Analog B or V-channel output.
11	GOUT	O	Analog G or U-channel output.
12	VCCO	—	5V power supply for output buffers.
13	ROUT	O	Analog R or Y-channel output.
14	GNDO	—	Analog ground.
15	DISABLE	I	Disable/Enable pin. Turns the chip off when logic high. Internally pulled low.
16	SYNC IN	I	Input for an external H-sync logic signal for filter channels. CMOS level input. Active High.

■ VHiFA3675F/-1 (ASSY: IC1701)

- **6-channel DC-DC Converter IC**

- **Block Diagram**

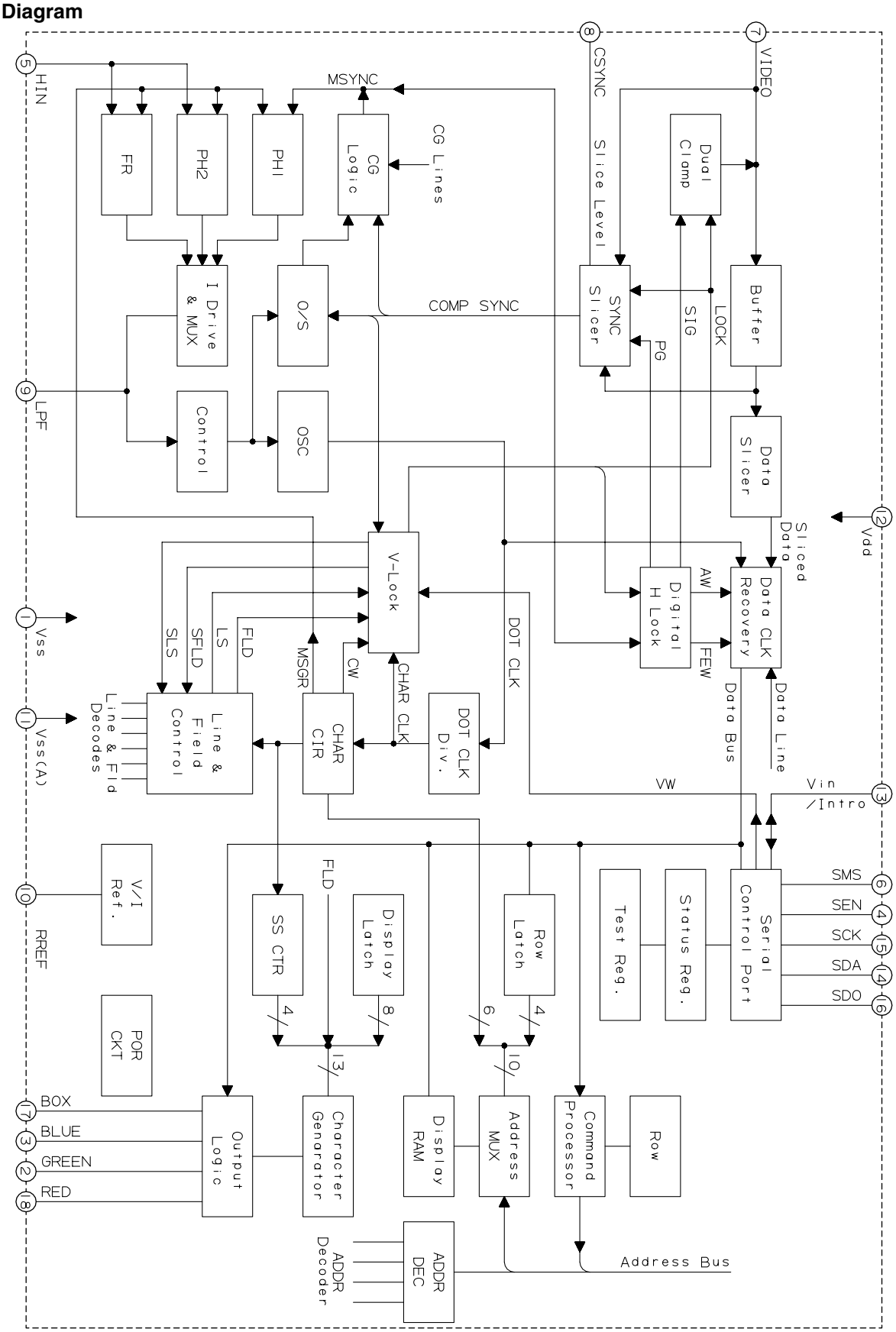


• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	VCC1	—	Power supply for control circuit.
2	RT	—	Oscillator timing resistor.
3	CT	—	Oscillator timing capacitor.
4	CS3	—	Soft start for Ch.3 & Ch.4.
5	CS5	—	Soft start for Ch.6.
6	CS4	—	Soft start for Ch.5.
7	CS1	—	Soft start for Ch.1
8	CS2	—	Soft start for Ch.2.
9	VREF	O	Reference voltage output.
10	CREF	O	Capacitor for reference voltage output.
11	VREG	O	Regulated for voltage output.
12	IN2-	I	Ch.2 inverting input to error amplifier.
13	FB2	O	Ch.2 output of error amplifier.
14	IN1-	I	Ch.1 inverting input to error amplifier.
15	FB1	O	Ch.1 output of error amplifier.
16	IN5+	I	Ch.5 non-inverting input to error amplifier.
17	IN5-	I	Ch.5 inverting input to error amplifier.
18	FB5	O	Ch.5 output of error amplifier.
19	IN6-	I	Ch.6 inverting input to error amplifier.
20	FB6	O	Ch.6 output of error amplifier.
21	IN3+	I	Ch.3 non-inverting input to error amplifier.
22	IN3-	I	Ch.3 inverting input to error amplifier.
23	FB3	O	Ch.3 output of error amplifier.
24	IN4+	I	Ch.4 non-inverting input to error amplifier.
25	IN4-	I	Ch.4 inverting input to error amplifier.
26	FB4	O	Ch.4 output of error amplifier.
27	CP	I	Timing capacitor for timer latch delay.
28	GND	—	Ground.
29	TLSEL	I	Ch.3 & Ch.4 timer latch selection(Low:disable).
30	CNT5	I	Ch.6 ON/OFF function.
31	CNT4	I	Ch.5 ON/OFF function.
32	CNT2	I	Ch.2 ON/OFF function.
33	CNT3	I	Ch.3 & Ch.4 ON/OFF function.
34	CNT1	I	Ch.1 ON/OFF function.
35	VCC2	—	Power supply for output stage.
36	VDRV	O	Bias for logic circuit of output.
37	PGND1	—	Power ground.
38	OUT1S	O	Ch.1 source electrode of output stage.
39	OUT1	O	Ch.1 output(for Pch-MOSFET)
40	OUT4	O	Ch.4 output(for Pch-MOSFET)
41	OUT3	O	Ch.3 output(for Pch-MOSFET)
42	OUT2S	O	Ch.2 source electrode of output stage.
43	OUT2	O	Ch.2 output(for Pch-MOSFET)
44	OUT6S	O	Ch.6 source electrode of output stage.
45	OUT6	O	Ch.6 output(for Pch-MOSFET)
46	OUT5	O	Ch.5 output(for Pch-MOSFET)
47	OUT5S	O	Ch.5 source electrode of output stage.
48	PGND2	—	Power ground.

■ VHiZ86129S+-1Y (ASSY: IC1602)

- **NTSC Line21 Decoder IC**
- **Block Diagram**

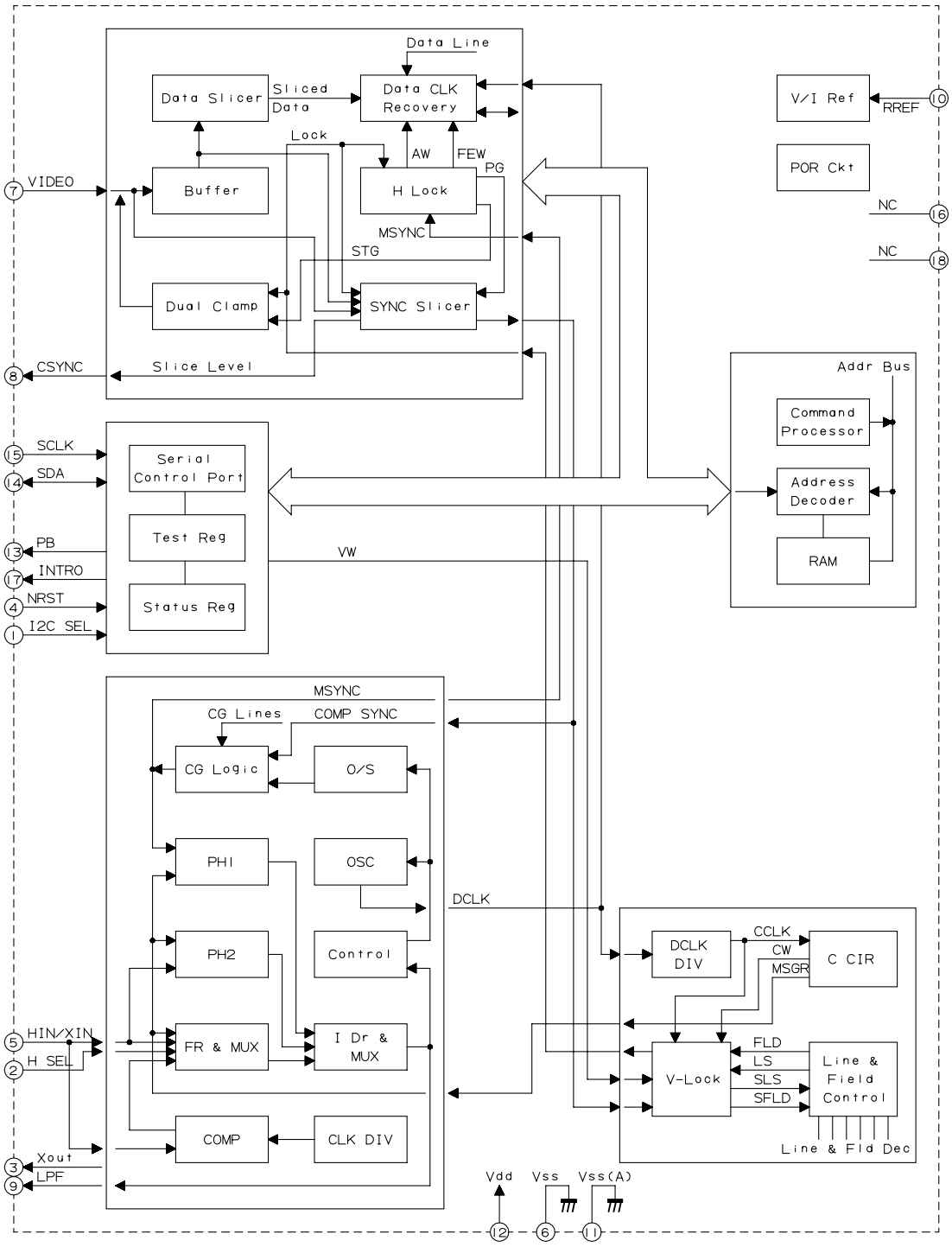


• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	Vss	—	Power Supply GND.
2	GREEN	O	Video Output
3	BLUE	0	Video Output
4	SEN	I	Serial Enable
5	HIN	I	Horizontal In
6	SMS	I	Serial Mode Select
7	VIDEO	I	Composite Video
8	CSYNC	O	Composite Sync
9	LPF	O	Loop Filter
10	RREF	I	Resistor Reference
11	Vss(A)	—	Power Supply (Analog) GND.
12	Vdd	—	Power Supply
13	Vin/INTRO	I/O	Vertical In/Interrupt Out
14	SDA	I/O	Serial Data
15	SCK	I	Serial Clock
16	SDO	O	Serial Data Out
17	BOX	O	OSD Timing Signal
18	RED	O	Video Output

■ VHiZ86230S+-1Y (ASSY: IC1601, IC1603)

- **NTSC Line21 Decoder IC**
- **Block Diagram**



• Pin Function

Pin No.	Pin Name	I/O	Pin Function
1	IICSEL	I	IIC Adderss Select
2	H SEL	I	HIN/XIN Select
3	Xout	0	XTAL Output
4	NRST	I	RESET
5	HIN/XIN	I	Horizontal In/XTAL In
6	Vss	—	Power Supply (Digital) GND.
7	VIDEO	I	Composite Video
8	CSYNC	O	Composite Sync
9	LPF	O	Loop Filter
10	RREF	I	Resistor Reference
11	Vss (A)	—	Power Supply (Analog) GND.
12	Vdd	—	Power Supply +5V
13	PB	O	Program Blocking
14	SDA	I/O	Serial Data
15	SCLK	I	Serial Clock
16	NC	—	No Connect
17	INTRO	O	Interrupt Output
18	NC	—	No Connect

7.3 IC DESCRIPTIONS

• Description of Main ICs

• IC1301 (CXA2069Q)
This IC is a 7-input, 3-output selector.
The video signals other than those for the PC and components, which have been input from each input connector and the tuner, and all the audio signals are sent to the IC1301 and then selected.
The video signals sent to the IC1301 are then input to the YC separation circuits, IC7001 (main) and IC402 (sub).
The audio signals are input to the PC I/F Unit via IC2501 (sound processor).

• IC1401 (MM1519XQ)
This IC is a 4-input, 3-output video selector for component input.
The VIDEO-1/3 Y/Pb/Pr signals, RGB component input and TV signal are input to the IC1401. The output signals go to the main, sub, and component channels.

• IC2501 (IX3370CE)
This IC is used to decode audio signals.
It serves as both the S-IF decoder and the selector for the input audio data.

• IC801/IC802 (TB1274AF)
This IC is intended for color TV brightness, chroma demodulation and sync processing.
It receives the main and sub brightness signals and color signals from IC7001 (main) and IC402 (sub) in the preceding stage, and gives out color difference signals.

• IC803 (CXA2101Q)
With a high-performance picture correction circuit incorporated, this IC consists of a base band video signal processing section for color difference input and a video switch (including HV sync signal processing).
Input selection is performed by INPUT-SEL (IIC BUS). The Y/Pb/Pr signals of Y/Cb/Cr/HD and their respective HV sync signals are input to each line.
As the multi-scanning compliance range, a horizontal scanning frequency of 15-60 kHz can be input.

• IC1901 (IXA194WJ)
This IC is FPGA for the synchronizing system.
It creates sand castle pulses for IC803 and generates horizontal blanking signals.

• IC604 (TA1318AF)
This IC synchronizes TV component signals.
The IC604 incorporates the necessary functions for measuring the frequency of input signals and synchronous replay into a single chip, and is applicable for horizontal synchronous replay (15.75, 31.5, 33.75, and 45 kHz) and vertical synchronous replay (525I, 525P, 625I, 750P, 1125I, 1125P, PAL 100 Hz, and NTSC 120 Hz).

• IC7001 (PD64082)
Through 3-dimensional NTSC signal processing, the PD64082 performs high-precision Y/C separation for main video signals sent from the IC1301.
In combination with a 4Mbit EDO (Hyper Page Mode) DRAM, this IC forms 3-dimensional Y/C separation and YNR/CNR system.

• IC402 (CXD2093Q)
This IC is a comb filter in the applicable field. Being a single high-precision Y/C chip, the 3-line comb filter performs the Y/C separation of the sub channel video signals that have been output from IC1301.

• IC804/IC810 (IX3473CE)
The IC804 is a 6.7 MHz low-pass filter, incorporating a 6 dB amplifier, for the sub screen.
The IC810, on the other hand, is a 6.7 MHz low-pass filter, also incorporating a 6 dB amplifier, for the main screen (for SDTV).

• IC811 (IX3474CE)
This IC is a 30 MHz low-pass filter, incorporating a 6 dB amplifier, for the main screen (for HDTV).

• IC1701 (FA3675CE)

This IC is designed to control the 6-channel PWM switching regulator.
With 5 step-up switching regulator lines incorporated, the IC converts +10V to +2.5V, +3.3V and +5.8V.
Also with a step-down switching regulator line incorporated, the IC converts +10V to +6.0V, -5.0V, +12V and +35V.
The lines are individually turned on and off.

• IC1602 (Z86129S)

The Z86129S is built in the TV decoder circuit and serves to process the vertical blanking interval (VBI) data that has come from the video signal field of the data corresponding to the transmission format defined by EIA-608.
The data flowing along Line 21 is composed of the data of some multiplexed data channels.
Field 1 has 4 data channels: 2 caption channels and 2 text channels.
Field 2 has 5 additional data channels: 2 caption channels, 2 text channels and expansion data service (XDS) channel. On any of these 9 data channels, the data transmitted can be recovered and displayed.

• IC1601/IC1603 (Z86230S)

The Z86230S functions for the process expansion data service (XDS) in Field 2 during the vertical blanking interval (VBI).
The XDS data is processed in order to specify the Program Blocking (PB) signal or recovered XDS data packets.
The on-chip XDS filter in the Z86230S enables to recover the XDS data packets only for programming.
The Z86230S is compatible with monitors (Picture-In-Picture) for violence blocking and other XDS data service.

• Description of Functions of Main ICs on PC I/F Unit

• IC4 (CXA3506R)

This IC is an A/D converter that incorporates a 3-channel, 8-bit, 120 MSPS amplifier and PLL. It is used for the video signals input to the I/F board on the main channel in the 1-screen and 2-screen modes, and also for the video signals input from the front for the PC.
The video signals (analog RGB) from the CN6 are input to IN1 of IC4.
For the PC, the video signals (analog RGB) from CN8 are input to IN2 of IC4.
The input video signals are converted into digital signals and then sent to IC25.

• IC310 (TLC5733A)

This IC is a 3-channel, 8-bit, 20 MSPS A/D converter.
It is used for the sub-channel of the video signals input to the PC I/F Unit in the 2-screen mode.
The video signals (analog Y, Cb, Cr) from CN6 are input to IC310.
The video signals input to this IC are converted into digital signals and then sent to IC25.

• IC25 (IX3434CE)

This IC performs the I/P conversion and scaling to match the digitalized video with the output resolution, and also the data conversion.
It has two input lines, V0 and V1. The V0 line is used to process the RGB, composite, and skirt signals input to the 480i and 580i components for the sub-channel in the 2-screen mode. The V1 line is used to process all the signals as well as V1 for the main channel in the 1-screen and 2-screen modes.
The IC25 detects what resolution is input from the input synchronizing signal; creates H synchronization in accordance with the frequency division ratio; creates the clamp signal in accordance with the input synchronizing signal; and performs the data matrix conversion.
The video signals input to this IC is sent to IC413.

• IC413 (SiL168)

This IC is a panel link transmitter.
It converts the 8-bit RGB video data output from IC25 into the differential TMDS signals and then digitally transmits the converted signals to the monitor.
The TMDS signals are transmitted at the frequency 10 times higher than the clock frequency.

• IC1 (IX3270CE)

This IC is a 1-chip RISC microprocessor.
It performs communication with the monitor and operates the system.
The IC1 also controls each IC in the AVC System and partially manages the power source.

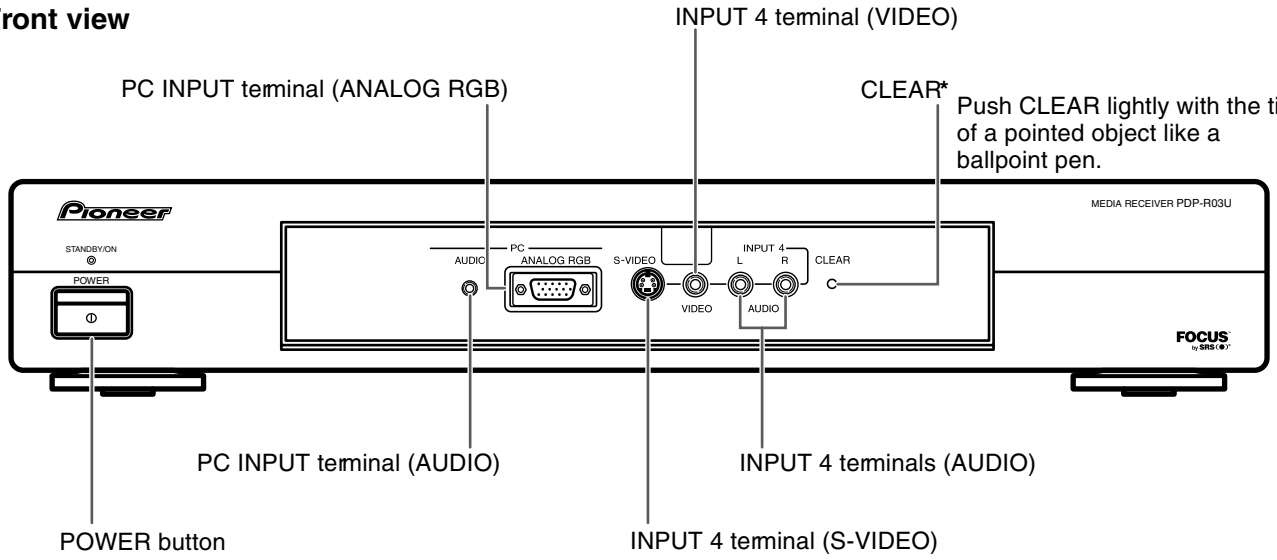
• IC405 (uPD4721)

This IC is an RS-232 line driver receiver conforming to the EIA/TIA-232-E standard.
The IC405, when connected to a PC, allows for externally controlling the system.
It is also applicable for upgrading IC1.

8. PANEL FACILITIES

Media Receiver

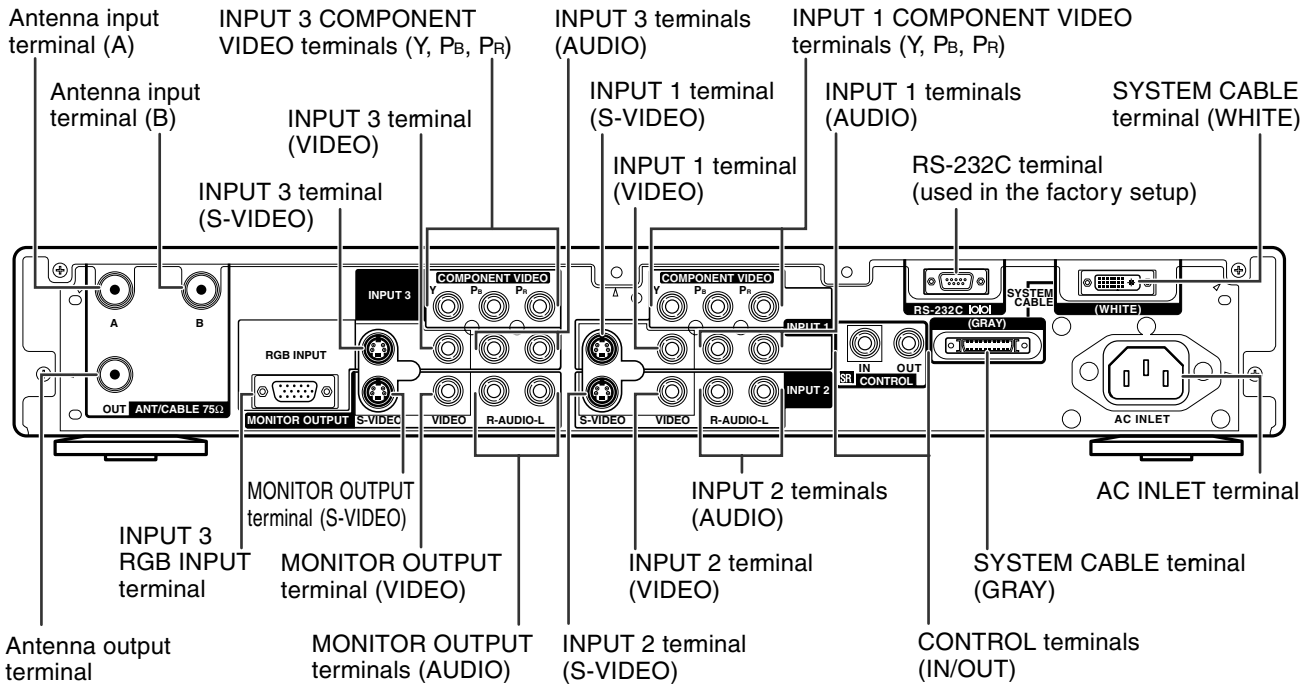
Front view



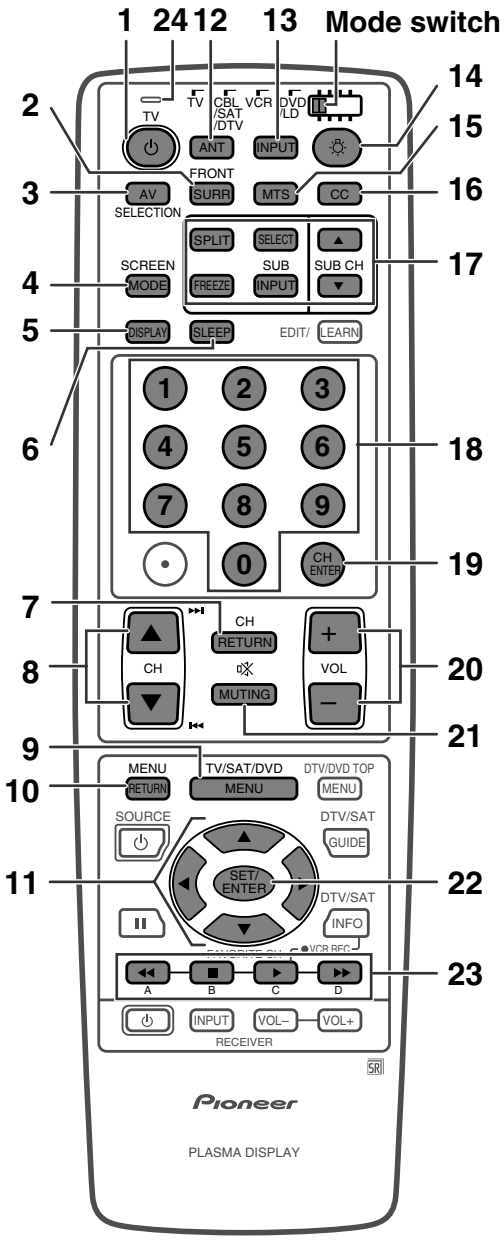
* If you're having problems operating the Media Receiver and want to return to normal screen, even when it stays on (the indicator lights green), press **CLEAR** on the Media Receiver. Pressing **CLEAR** resets the System as shown below.
  - AV SELECTION resets to STANDARD
  - TV channel returns to initial channel setting(Air:2ch, Cable:1 or 2ch)
  - Multiscreen resets to normal
  - Audio setting initializes
  - SRS resets to Off.
  - Image position initializes

NOTE
- Pressing **CLEAR** will not work if the System is in standby mode but the indicator lights red.
- Pressing **CLEAR** will not delete channel preset or secret number. See for initializing factory preset settings when you know your secret number. See for initializing factory preset values when you have for gotten your secret number.

Rear view



Remote control unit



NOTE
- When using the remote control unit, point it at the Plasma Display.

Set the mode switch to TV.

1 **TV ⏻ :** Switch the Plasma Display power on or off.
2 **FRONT SURR:** Set SRS and FOCUS Sound System.
3 **AV SELECTION:** Select an audio or video setting.
(AV mode: STANDARD, DYNAMIC, MOVIE, GAME, USER.
PC mode: STANDARD, USER.)
4 **SCREEN MODE:** Select the screen size.
5 **DISPLAY:** Display the channel information.
6 **SLEEP:** Set the SLEEP timer
7 **CH RETURN:** Return to the previous channel.
8 **CH ▲/▼ :** Select the channel.
9 **MENU:** Display the menu screen.
10 **MENU RETURN:** Return to the previous menu screen.
11 **▲/▼/◄/► :** Select a desired item on the setting screen.
12 **ANT:** Select the antenna. (A, B) (See page 12 for details)
13 **INPUT:** Select an input source of the Plasma Display.
(TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, PC)
14 ☼**:** When pressed all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds. This button is used for performing operations in dark places.
15 **MTS:** Select the MTS/SAP.
16 **CC:** Display captions during closed-caption source.
17 **Dual picture mode select buttons**
SPLIT: Set the dual picture mode. Press again to return to normal screen.
FREEZE: Set the still image. Press again to return to normal screen.
SELECT: Select the active screen.
SUB INPUT: Select an input source of sub screen.
SUB CH ▲/▼ : Select the channel of sub screen.
18 **0 – 9:** Set the channel.
19 **CH ENTER:** Execute a channel number.
20 **VOL + /– :** Set the volume.
21 **MUTING:** Mute the sound.
22 **SET/ENTER:** Execute a command.
23 **FAVORITE CH**
A, **B**, **C**, **D:** Select any of four preset channels. (See page 25 for ditails to set the FAVORITE CH.)
While watching you can toggle the set channels by pressing A, B, C and D.
24 **LED for transmission confirmation**